WEST VIRGINIA UNIVERSITY

The 1961-62 Catalog

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WEST VIRGINIA UNIVERSITY

The 1961-62 Catalog

WEST VIRGINIA UNIVERSITY BULLETIN

CORRESPONDENCE

Correspondence should be addressed as follows:

ADMISSIONS AND RECORDS

Registrar

ALUMNI MATTERS

Alumni Secretary

CATALOG, ANNOUNCEMENTS

Registrar

EMPLOYMENT OF SENIORS AND ALUMNI

Placement Bureau

EXTENSION

Director of University Extension

HOUSING

On Campus: Director of Residence Halls

Off Campus: Bureau of Public Information

INFORMATION

Bureau of Public Information

MATTERS OF GENERAL UNIVERSITY INTEREST

The President

VETERANS AFFAIRS

Veterans' Coordinator

WEST VIRGINIA UNIVERSITY, MORGANTOWN, W. VA.

SERIES 61, NO. 7-1 — WEST VIRGINIA UNIVERSITY BULLETIN — JANUARY, 1961

The *West Virginia University Bulletin* is issued monthly throughout the year. Publications included are the *Announcements* of the College of Arts and Sciences, the College of Agriculture, Forestry, and Home Economics, the College of Commerce, the College of Education, the College of Engineering, the Division of Forestry, the School of Journalism, the College of Law, the Medical Center (the School of Dentistry, the School of Medicine, the School of Nursing, the School of Pharmacy, and Basic Sciences), the School of Mines, the School of Music, the School of Physical and Health Education, Recreation, and Safety, and the Graduate School; the Summer Session, and the Evening Education Program; the *General Catalog*, bulletins of the College of Engineering and the School of Mines; other scholarly and scientific publications; and the *Proceedings* of the West Virginia Academy of Science.

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The Board of Governors

	TERM EXPIRES
K. Douglas Bowers, *President,* Beckley	1962
Frank J. Zsoldos, *Vice-President,* Pineville	1963
James H. Swadley, Jr., *Secretary,* Keyser	1967
A. C. Spurr, Wheeling	1961
William G. Thompson, Montgomery	1964
Raymond E. Salvati, Huntington	1965
Forrest H. Kirkpatrick, Wheeling	1966
Okey B. Glenn, Williamson	1968
Charles C. Wise, Jr., Charleston	1969

Clyde Lemuel Colson, *Acting Chief Executive Officer,* Morgantown

The Board of Governors has charge of the educational, administrative, financial and business affairs of the University and Potomac State College of West Virginia University.

ADMINISTRATIVE OFFICERS

General

Acting President, Clyde Lemuel Colson, A.B., LL.B., S.J.D., (1961), 1935.
President, Elvis Jacob Stahr, jr., A.B., B.A. in Jurisprudence, M.A. (Oxon.), B.C.L., LL.D., (1959). (On Leave of Absence as Secretary of the Army, 1961-).
Comptroller and Director of Business Affairs, Louise Keener, B.A., (1954), 1929.
Development, Donovan Hiner Bond, M.A., *Director,* (1959), 1942.
Libraries, Robert Ferguson Munn, M.A., *Director,* (1957), 1952.
Provost, John Ford Golay, A.B., A.B. M.A. D.Phil. (Oxon.), (1961).
Registrar and Chairman of the Committee on Admissions, J. Everett Long, M.A., (1945), 1929.
Student Affairs, Joseph Clay Gluck, B.A., B.D., *Director,* (1949), 1943.
Dean of Women, Betty Boyd, A.B., (1955), 1948.
University Marshal, Sam Boyd, Jr., M.F.A., (1959), 1940.

Colleges, Schools, and Divisions

Air and Army ROTC, Jack Gillespie Milne, B.S., *Head,* (1958).
Agriculture, Forestry, and Home Economics, Ernest Joseph Nesius, Ph.D., *Dean,* (1960).
Agricultural Experiment Station, A. H. VanLandingham, Ph.D., *Director,* (1959), 1929.
Agricultural Extension Service, John Oliver Knapp, B.S.Agr., *Director,* (1938), 1917.
Arts and Sciences, Armand Rene Collett, Ph.D., *Dean* (1951), 1924
Commerce, Raymond W. Coleman, Ph.D., *Dean,* (1952), 1948.
Education, Earl Ruffner Boggs, Ph.D.. *Dean,* (1960).
Engineering, Chester Abbo Arents, M.E., *Dean,* (1955).
Engineering Experiment Station, Walter Allos Koehler, Ph.D., *Director,* (1952) 1924.
Extension, University, Ernie Bevan McCue, A.M., *Director,* 1952), 1947.
Graduate, Walter Allos Koehler, Ph.D., *Acting Dean,* (1960), 1924.
Journalism, Quintus C. Wilson, Ph.D., *Dean,* (1961).
Law, Clyde Lemuel Colson, S.J.D., *Dean,* (1956), 1935.
Medical Center, Kenneth Earl Penrod, Ph.D., *Vice President,* (1959).
Dentistry, Kenneth V. Randolph, D.D.S., *Dean,* (1958), 1957.
Medicine, Clark Kendall Sleeth, M.D., *Dean,* (1961), 1935.
Nursing, Dorothy Mae Major, Ed.D., *Dean,* (1960).
Pharmacy, Joseph Lester Hayman, Ph.C., M.S., *Dean,* (1936), 1919.
University Hospital, Eugene Leo Staples, M.S., *Director,* (1960).
Nursing Service, Audrey Edith Windemuth, M.S., *Director,* (1960).
Mines, Richard Willoughby Laird, M.S.E.M., *Acting Dean* (1961), 1947.
Music, Richard E. Duncan, Ph.D., *Dean,* (1958).
Physical and Health Education, Recreation, and Safety, Ray Oscar Duncan, Ed.D., *Dean,* (1952).

Heads of Other Administrative Offices

Book Store, Ruth Eleanor Robinson, A.M., *Manager,* (1944), 1939.
Buildings and Grounds, Edwin Orr, B.S.M.E., *Superintendent,* (1954), 1949.
Health Service, John Joseph Lawless, Ph.D., M.D., *Director,* (1944), 1935.
High School, University: Delmas Ferguson Miller, Ph.D., *Director,* (1960), 1949.
E. Grant Nine, M.S., *Principal,* (1960), 1956.
Information and Alumni Secretary, David Wood Jacobs, A.B., *Director,* (1938).
Intercollegiate Athletics, Robert Nathan Brown, A.B., *Director,* (1954), 1950.
Kanawha Valley Graduate Center of Science and Engineering. Walter Hamilton Walker, Ph.D., *Director,* (1960).
University Editor, John Luchok, B.S.J., (1953), 1950.

NOTE: The first date following titles indicates latest appointment. The second date indicates year of first appointment to a University position.

Mountainlair, Robert F. McWhorter, M.S., *Director,* (1959).
Placement, Margaret Cornelia Ladwig, Ph.D., *Advisor,* (1949).
Residence Halls, Agnes B. Hovee, M.A., *Director,* (1956), 1950.
Veteran's Coordinator and Coordinator of Scholarships, Charles J. Sheehan, B.S.Ed., (1957).

Standing Committees

THE UNIVERSITY

ADMISSIONS: The Registrar and the deans of all colleges and schools admitting freshmen.

ARBORETUM: E. L. Core, R. O. Duncan, J. L. Hayman, J. G. Leach, R. S. Marsh, Edwin Orr, and W. C. Percival.

BOARD OF GOVERNORS SCHOLARSHIPS: F. J. Holter, Betty Boyd, C. H. Cather, J. L. Hall, J. E. Long, and M. L. Vest.

BUILDINGS AND GROUNDS: A. R. Collett, H. M. Cather, R. O. Duncan, Edwin Orr, and A. H. VanLandingham.

OFF-CAMPUS CONTACTS: W. R. Summers, Jr., D. H. Bond, M. G. Brooks, C. W. Brown, Mary C. Buswell, T. C. Campbell, Jr., P. W. Gainer, Francisco Herrera, D. W. Jacobs, J. E. Long, and Dana Wells.

PERMANENT BUILDINGS: C. L. Lazzell, R. O. Baldwin, H. M. Cather, R. S. Marsh, and F. P. Summers.

SPACE ALLOCATION: R. D. Baldwin, C. L. Lazzell, J. E. Long, and Edwin Orr.

THE SENATE

EXECUTIVE COMMITTEE: Acting President Colson, Q. F. Curtis, H. A. Gibbard, D. H. Bond, J. L. Hall, Leo Fishman, H. P. Simons, and J. E. Long.

COMMITTEES: J. C. Burchinal, N. M. Baughman, E. W. Crooks, Jr., F. D. O'Connell, and J. G. Scherlacher.

ENGLISH PROFICIENCY BOARD: B. R. McGregor, V. Q. Alvis, E. C. Dubbe, R. E. Foster, W. O. Morris, A. R. Thomas, Jr., and Collins Veatch.

EXTENSION: E. C. Kennedy, M. G. Brooks, P. W. Gainer, J. O. Knapp, E. B. McCue, W. R. Ross, and R. W. Laird.

FACULTY WELFARE: J. G. Leach, W. W. Armentrout, H. D. Collins, R. H. Theophilus, and L. W. Welden.

HOUSING: T. S. Isaack, J. D. Adams, J. N. Shafer, A. L. Sturm, and D. T. Watts.

INSTRUCTIONAL POLICIES AND PRACTICES: E. M. Steel, Jr., R. D. Baldwin, T. W. Gavett, O. M. Neal, Jr., R. E. Rankin, John Semon, and J. R. Young.

LIBRARY: R. F. Munn, W. H. Dickerson, E. C. Gangloff, M. T. Heald, C. M. Morris, Irvin Stewart, and J. H. Thompson.

MEMBERSHIP: L. M. Davis, H. A. Lindsay, and H. N. Rexroad.

PUBLICATIONS: Frances Krauskopf, L. R. Bragg, V. J. Lemke, V. G. Lilly, John Luchok, F. J. Lotspeich, and J. A. Welch.

RESEARCH: H. A. Wilson, T. C. Campbell, Jr., S. E. Dadisman, J. W. Draper, W. K. Harrell, W. A. Koehler, Mortimer Levine, E. J. Nesius, A. S. Pavlovic, and J. R. Williams.

STUDENT AFFAIRS: J. C. Gluck. Members to consist of the various chairmen of subcommittees on student affairs as appointed by the President.

Convocations: J. C. Gluck, B. R. McGregor, D. T. Watts; student members: James E. O'Connell, Jr., Jacqueline Richardson, Edward W. Samples, and Nancy S. Smithers.

Discipline: C. K. Sleeth, H. P. Pettigrew, and M. L. Vest.

New Residences: J. C. Gluck, L. R. Gribble, Stephen Harrick, and Cornelia Ladwig.

Off-Campus Schedules: J. C. Gluck, A. R. Collett, and J. L. Hayman.

The pylons at the entrance of the University Medical Center symbolize numerous things—modern schools for training students in medicine, dentistry, pharmacy and nursing—and important contributions to human welfare through research and better health.

Scholarships, Awards, and Student Financial Aids: J. C. Gluck, Betty Boyd, A. W. Goodspeed, J. E. Long, C. J. Sheehan, and R. M. White.

Social Affairs: J. C. Gluck, Betty Boyd, Wincie Ann Carruth, H. A. Gibbard, R. F. McWhorter, and C. B. Seibert; student members: Edward G. Atkins, Lois Conley, Malcolm Kerstein, Myla F. Woodford.

Student Fee Fund: J. C. Gluck and Betty Boyd; student members: Darrell V. McGraw, Willie Sue Woods, and Harold S. Yost.

Student Publications: Quintus C. Wilson, Henry D. Collins, P. W. Gainer, F. E. Wright, and John Luchok; student members: John A. Cardea, Thomas F. McCoy, and Robert W. Pendergast.

Sub-Committee on Loans: J. C. Gluck, J. H. Clarke, C. L. Lazzell, and E. O. Roberts.

Mountainlair Governing Board: J. C. Gluck, Betty Boyd, O. J. Burger, R. F. McWhorter, J. G. Scherlacher, and Dana Wells; student members: Jane N. Heaberlin, John R. Lukens, Ann Alice Sleeth, Gary F. Spencer, and Harold J. Walker.

STUDENT ETHICS IN ACADEMIC WORK: F. P. Summers, C. W. Blissitt, W. D. Lorensen, L. Z. Seltzer, R. M. White, and C. P. Yost.

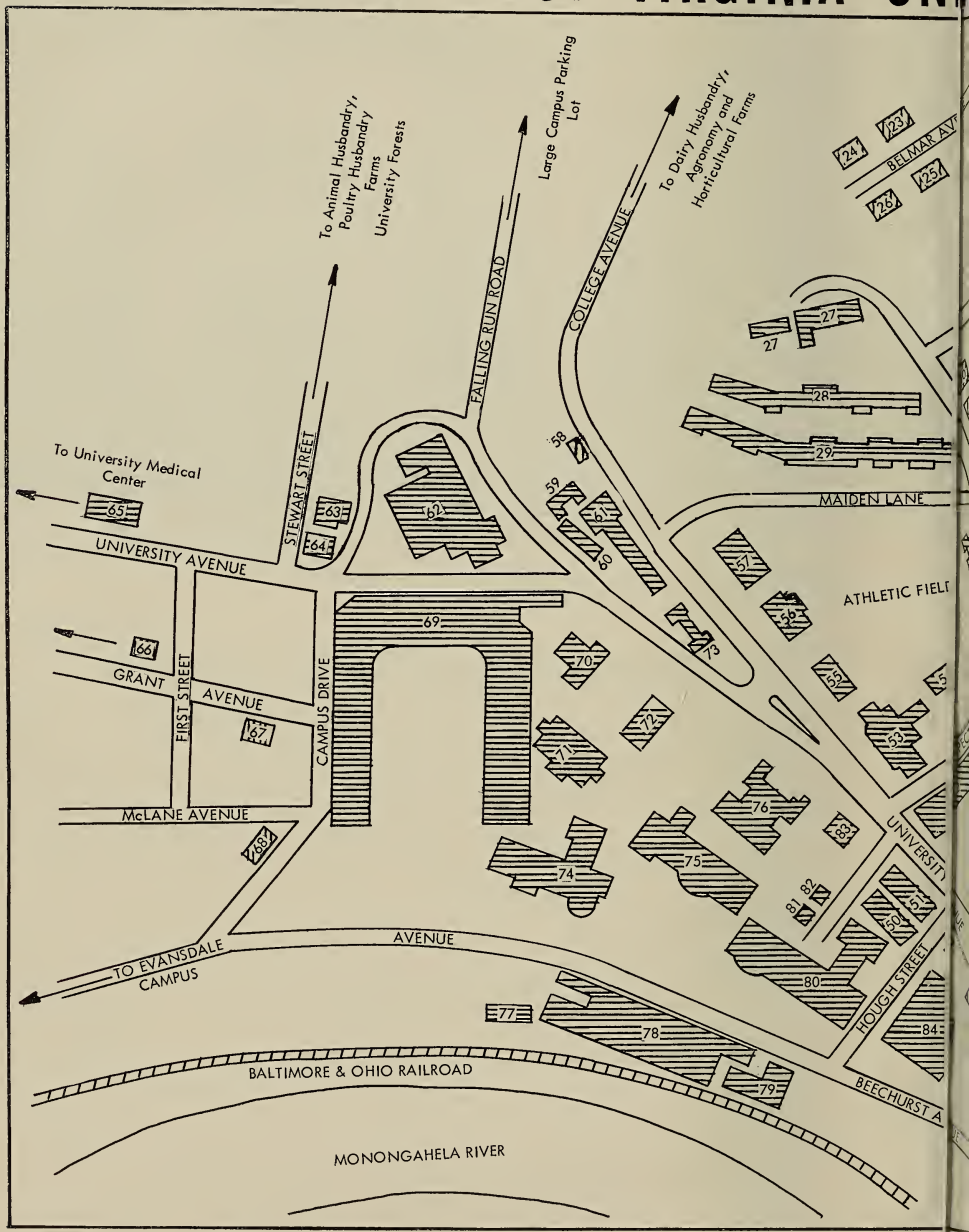
TEACHER EVALUATION: R. J. Johnson, R. L. Decker, R. S. Dunbar, Jr., W. K. Katz, and G. G. Pohlman.

TEACHER TRAINING: I. D. Peters, W. M. Bagby, C. R. Bishop E. R. Boggs, J. D. Clarkson, W. A. Carruth, J. B. Hickman, W. F. Manning, D. F. Miller, Ruth Noer, Charles Norman, and G. E. Schafer.

TENURE AND RETIREMENT: F. E. Wright, H. J. P. Brawner, J. D. Graybeal, G. E. Toben, and M. L. Vest.

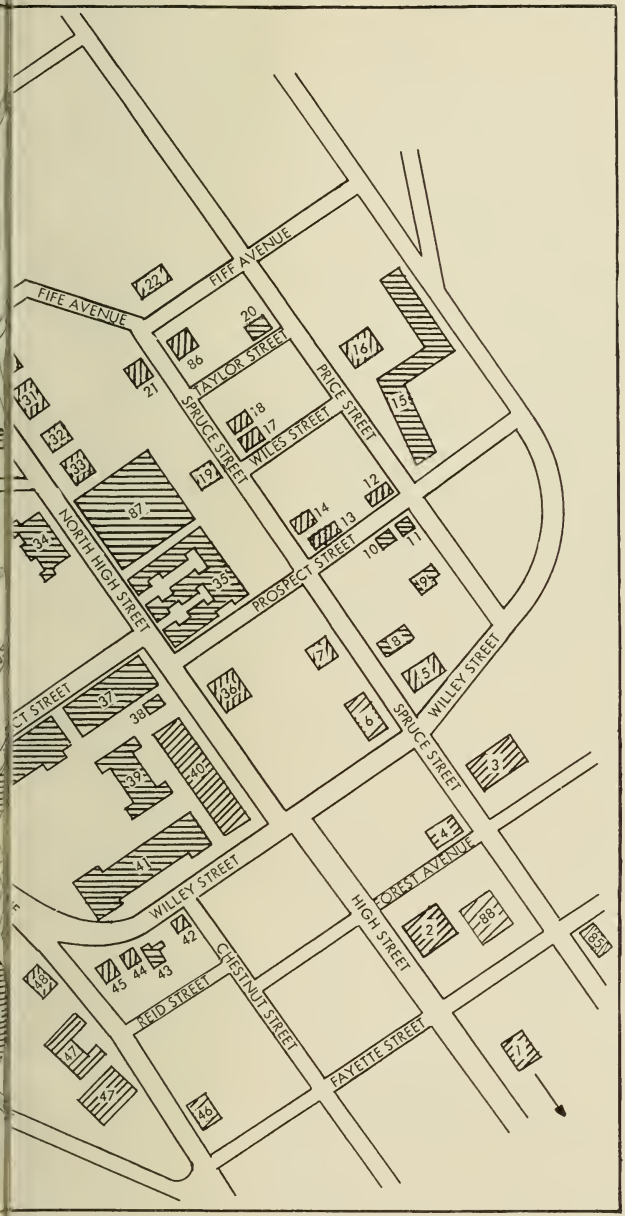
UNIVERSITY RESEARCH GRANTS: W. A. Koehler, D. H. Bond, Q. F. Curtis, H. A. Gibbard, J. L. Hall, I. D. Porterfield, and D. T. Worrell.

THE WEST VIRGINIA UNI



1. Christian Church–Disciples Fellowship (youth group)
2. Baptist Church–Student Fellowship (youth group)
3. Presbyterian Church–Westminster Foundation (youth group)
4. Greek Orthodox Church–Greek Orthodox Y
5. Alpha Phi Sorority
6. Episcopal Church–Canterbury Association

ERSITY MAIN CAMPUS

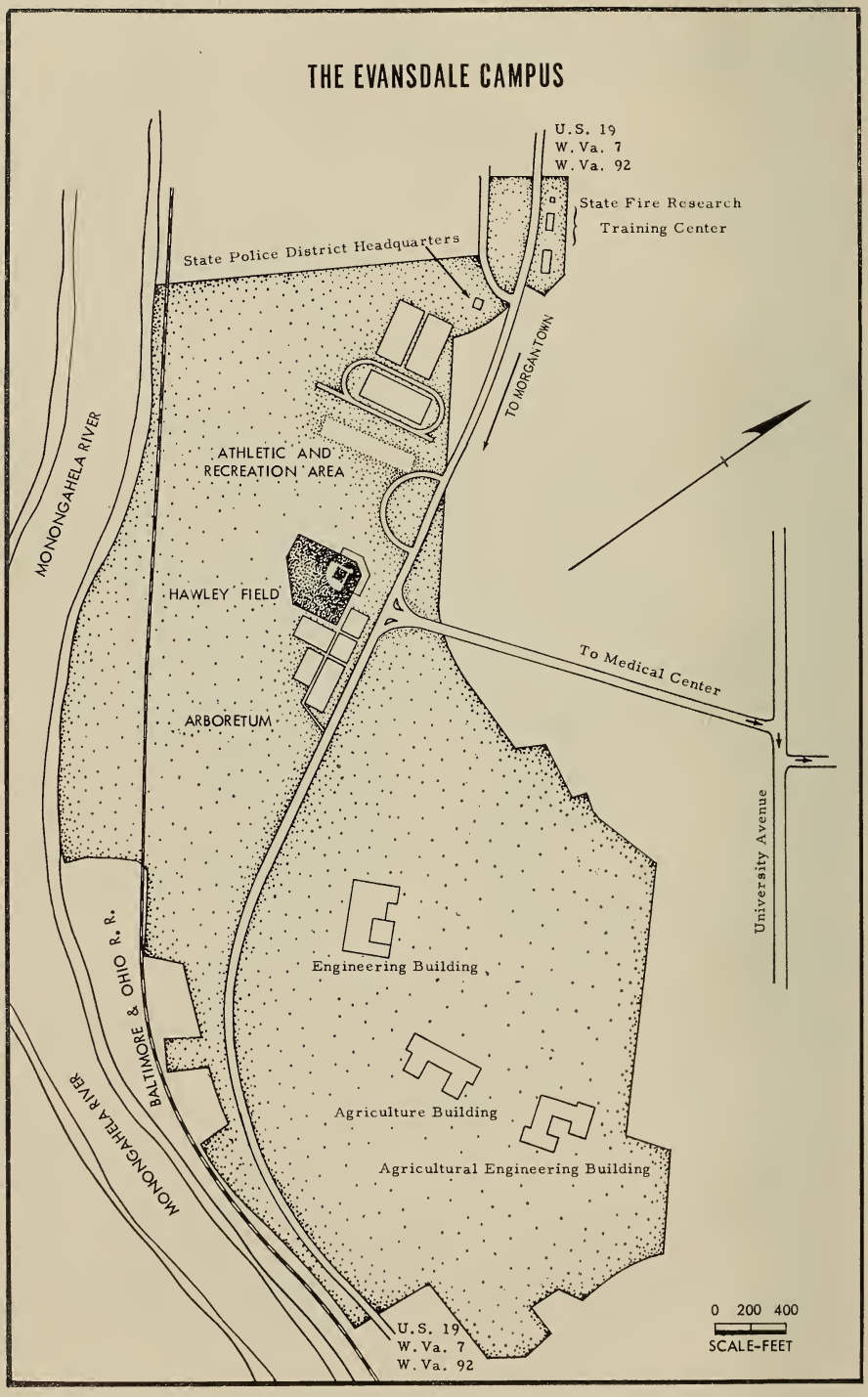


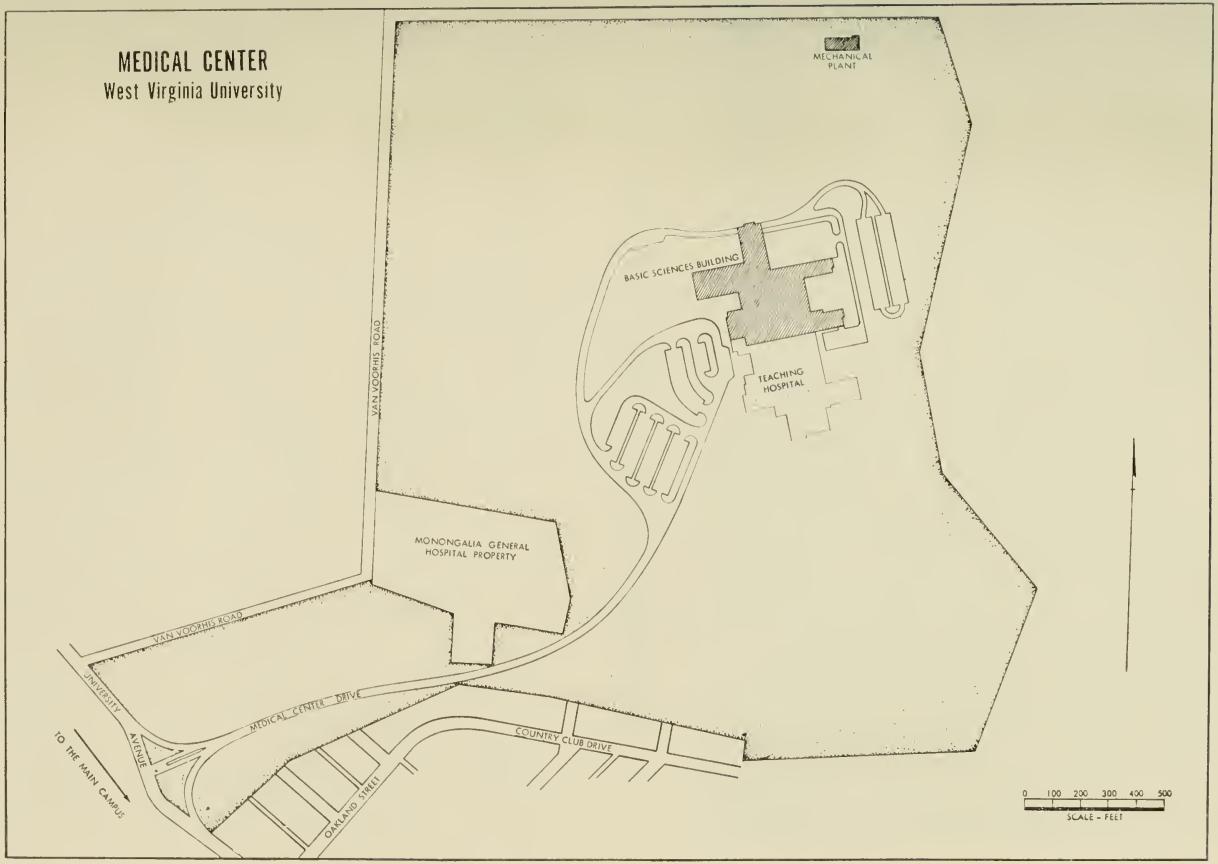
America (youth group)

group)

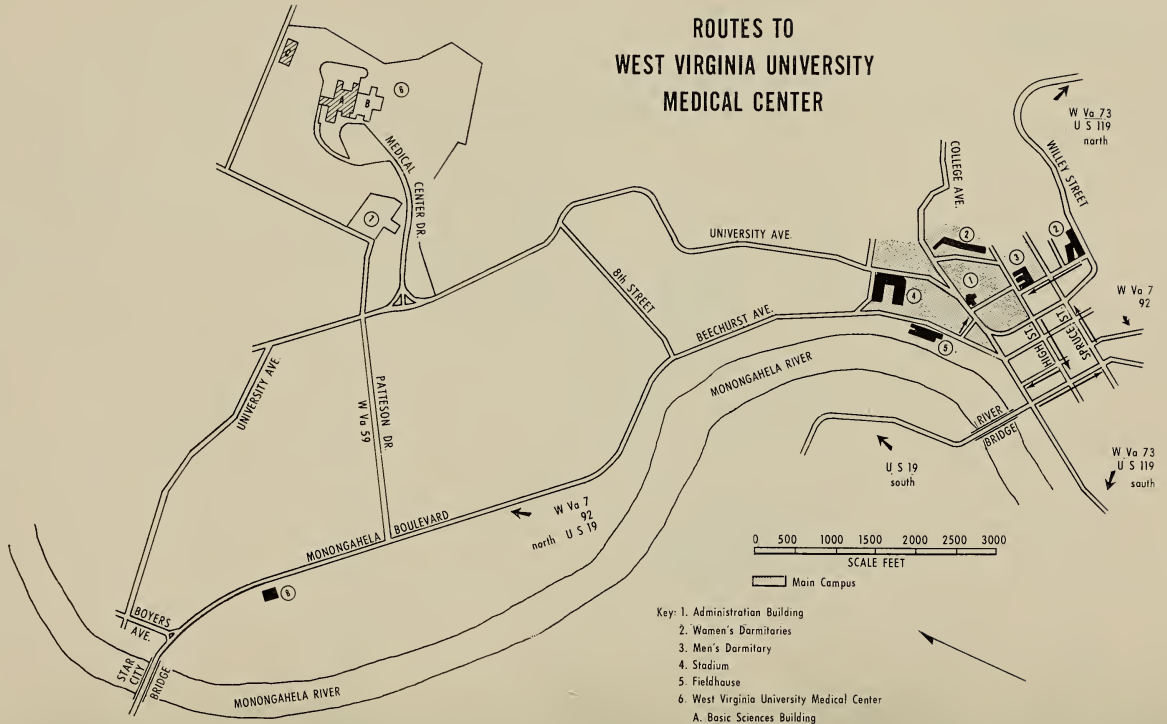
7. Phi Kappa Sigma Fraternity
8. Spruce Street Annex
9. Nursery School

10. Textiles Laboratory
11. Home Management Apartments
12. Alpha Delta Pi Sorority
13. Kappa Kappa Gamma Sorority
14. Alpha Xi Delta Sorority
15. Arnold Hall
16. Delta Gamma Sorority
17. Delta Delta Delta Sorority
18. Alpha Phi Delta Fraternity
19. Theta Chi Fraternity
20. Agricultural Economics Building No. 2
21. Phi Sigma Delta Fraternity
22. Phi Kappa Psi Fraternity
23. Beta Theta Pi Fraternity
24. Phi Delta Theta Fraternity
25. Sigma Nu Fraternity
26. Kappa Sigma Fraternity
27. Horticulture Greenhouses
28. Terrace Hall
29. Women's Hall
30. Sigma Chi Fraternity
31. Phi Sigma Kappa Fraternity
32. Kappa Alpha Fraternity
33. Delta Tau Delta Fraternity
34. Armory
35. Men's Hall
36. Chi Omega Sorority
37. Temporary Engineering Building No. 1
38. Glasscock Annex
39. Library
40. Methodist Church–Wesley Foundation (youth group)
41. Mineral Industries Building
42. Alpha Sigma Phi Fraternity
43. Home Management House
44. Sigma Phi Epsilon Fraternity
45. Kappa Delta Sorority
46. Jewish Youth Center–Hillel Foundation
47. Roman Catholic Church–Newman Club (youth group)
48. Pi Beta Phi Sorority
49. Lutheran Church–Lutheran Student Association (youth group)
50. Bookstore
51. Law Building
52. Chemistry Building
53. Administration Building
54. Speech Annex
55. Reynolds Hall
56. Health Center
57. Cafeteria
58. Pi Lambda Phi Fraternity
59. Agricultural Economics Building No. 1
60. Oglebay Hall Annex
61. Oglebay Hall
62. Mountainlair
63. Plant Pathology Greenhouse
64. Forestry Building
65. Evangelical United Brethren Church–Student Youth Fellowship (youth group)
66. Alpha Gamma Rho Fraternity
67. Lambda Chi Alpha Fraternity
68. Pi Kappa Alpha Fraternity
69. Mountaineer Field
70. Science Hall
71. Woodburn Hall
72. Martin Hall
73. Experiment Station Building
74. Brooks Hall
75. Armstrong Hall
76. Elizabeth Moore Hall
77. Heating Plant
78. Field House
79. Temporary Engineering Building No. 2
80. Physics Building
81. Placement Office–Vets. School
82. Counseling Center
83. President's Home
84. Music Building
85. Spruce Street Methodist Church
86. Tau Kappa Epsilon Fraternity
87. New Men's Hall
88. Gamma Phi Beta Sorority


THE EVANSDALE CAMPUS
U.S. 19
W. Va. 7
W. Va. 92
State Fire Research
Training Center
State Police District Headquarters
TO MORGANTOWN
MONONGAHELA RIVER
ATHLETIC AND
RECREATION AREA
HAWLEY FIELD
To Medical Center
ARBORETUM
University Avenue
Engineering Building
BALTIMORE & OHIO R. R.
Agriculture Building
Agricultural Engineering Building
MONONGAHELA RIVER
U.S. 19
W. Va. 7
W. Va. 92
0 200 400
SCALE-FEET


MEDICAL CENTER
West Virginia University
MECHANICAL PLANT
BASIC SCIENCES BUILDING
TEACHING HOSPITAL
VAN VOORHIS ROAD
MONONGALIA GENERAL HOSPITAL PROPERTY
VAN VOORHIS ROAD
UNIVERSITY AVENUE
MEDICAL CENTER DRIVE
COUNTRY CLUB DRIVE
OAKLAND STREET
TO THE MAIN CAMPUS
0 100 200 300 400 500
SCALE - FEET

ROUTES TO WEST VIRGINIA UNIVERSITY MEDICAL CENTER



Key: 1. Administration Building
2. Women's Dormitories
3. Men's Dormitory
4. Stadium
5. Fieldhouse
6. West Virginia University Medical Center
A. Basic Sciences Building
B. University Hospital
C. Mechanical Plant
7. Monongalia General Hospital Property
8. State Police Barracks

The Role of West Virginia University

by Elvis J. Stahr, jr.*

West Virginia University is a major institution not just of the State of West Virginia but of the great world of scholarship; it is an inheritor and trustee of the oldest of man's traditions, the eternal quest for knowledge, and it is dedicated to the performance of six functions which are of central and incalculable importance to West Virginia, to America, and indeed to all mankind.

(1) *The preservation and organization* of the constantly accumulating knowledge and thought of mankind.

(2) *The transmittal and imparting* of this knowledge and thought to succeeding generations.

(3) *The challenging* of individual men and women to seek knowledge, to think logically and critically, to communicate effectively, to develop intellectual and moral integrity based upon high standards of personal and social values, and to cultivate genuine appreciation for the good, the true, and the beautiful.

(4) *The discovery* of new knowledge and new insights through research, through contemplation, and through the intellectual and cultural stimulation and joint efforts of a community of scholars.

(5) *The integration* of knowledge, and the pursuit of wisdom, through the development of valid relationships between the findings and contributions of the many specialized fields and areas of information, experience, and research.

(6) *The application* of knowledge to the solution of problems, and to the development of better ways of working and living, for the benefit both of the individual and of society. This obviously includes the training of students for professional competence to serve society and thereby also to earn a livelihood for themselves and their families. It further includes the obligation of the University to serve the people generally, in many useful ways.

*On Leave of Absence as Secretary of the Army (1961-).

Part I

THE UNIVERSITY

HISTORY, DESCRIPTION, AND ORGANIZATION

History

West Virginia University was founded as a result of the Congressional Land-Grant (Morrill) Act of July 2, 1862, originally proposed in Congress for the benefit of agriculture and the mechanic arts. The State Legislature accepted conditions of the Act on October 3, 1862. Because of the State's questionable wartime status, the Legislature later specifically requested that the Act's benefits be extended to West Virginia. This was done by Congress on April 19, 1864, with the issuance of 150,000 acres in land scrip for public tracts, principally in Iowa and Minnesota.

The trustees of Monongalia Academy, on January 9, 1866, offered its property to the State, including the site and other property of nearby Woodburn Female Seminary, appraised at $51,000, on condition that the proposed college "be located permanently at or near Morgantown." The Legislature accepted the offer February 7, 1867, and established the "Agricultural College of West Virginia."

Government and control of the "Agricultural College" were vested in a Board of Visitors composed of one member from each of the State's eleven senatorial districts. In response to requests from President Alexander Martin, the Legislature, by an act of December 4, 1868, changed the name of the "Agricultural College" to "West Virginia University." At the same time the name of the controlling body was changed from "Board of Visitors" to "Board of Regents." Primarily to serve political purposes, the number of regents was changed from time to time until 1919, when government and control were vested in a State Board of Education of five members, including the State superintendent of free schools as the ex officio chairman. This plan was unsatisfactory, and an act of April 14, 1927, vested control of the University's academic matters in a Board of Governors of seven members. In 1947, the Board was increased to nine members, and made responsible for both academic and financial affairs of the University.

Right up to the end of the century, supporters of the institution were divided on whether to work for a "State-supported University," or a "first-class State-supported college." Until the early 1890's, the "College Plan" dominated, with "departments" and "schools" functioning autonomously, and with professors generally occupying "chairs" and operating provincially.

But the Hatch Act (1887) and the Second Morrill Act (1890) stimulated more progressive thinking among leaders in higher education. Many of them who were familiar with European systems (including the University's President James L. Goodnight) helped bring the "University Plan" into the ascendancy. In 1895 President Goodnight set out to convert the "University" into just that.

ORIGIN OF THE SCHOOLS AND COLLEGES

"The eight Academy Schools, five Technical and Professional Schools, and four Special Courses" were organized into four colleges, each with a dean: Arts and Sciences, Powell B. Reynolds; Engineering and Mechanic Arts, William S. Aldrich; Agriculture, John A. Meyers; and Law, Judge Okey Johnson. The School of Music was established in 1897, a "Summer Quarter" or "Continuous Session" in 1898, and a College of Medicine in 1900.

Both the College of Medicine and the Summer Quarter were discontinued in 1901. Beginning in 1897 the College of Arts and Sciences and the College of Engineering and Mechanic Arts functioned without deans and through more or less autonomous

departments and schools to 1911 when the deanships were revived. In 1902 a semblance of the "Summer Quarter" was revived in the "Summer School," which in 1932 became the "Summer Session." Alternating between a department and a school organization since 1867, Military Science and Tactics became a division in 1911. The arrangement made in 1903 with the College of Physicians and Surgeons, Baltimore, for maintaining a University College of Medicine proved unsatisfactory. It was discontinued in 1910, and the "Medical Sciences" were offered in a department of the College of Arts and Sciences to 1912 when the School of Medicine was established. In 1914 a Department of Pharmacy was established in the School of Medicine. In the same year the Department of Home Economics, previously a unit in the College of Arts and Sciences, was transferred to the College of Agriculture. The Division of Agricultural Extension was organized in 1912 and the Division of Mining and Industrial Extension in 1914.

The building program inaugurated in 1917 brought additional expansions and curricular offerings. Among the former were the Engineering Experiment Station, 1921, and the School of Mines, 1926, which in 1930 became an independent unit. In 1927 the courses in education were transferred from the College of Arts and Sciences to the newly created College of Education, and in 1928 the Division of Physical Education was established. Offerings were being improved meanwhile through additional and better-qualified personnel. In January, 1930, the Board of Governors established a Graduate School authorized to offer graduate degrees in certain indicated fields.

The Depression (1929-35) slowed expansion somewhat, but progress was resumed in 1936 when the Department of Pharmacy was discontinued as a unit of the School of Medicine and converted into the College of Pharmacy. The next year the Division of Physical Education and the Department of Athletics were combined into the School of Physical Education and Athletics. At the same time (1937), the course in Forestry begun in 1935 as a two-year curriculum in the College of Agriculture, was expanded to a four-year course, and the name of the sponsoring unit was changed to the College of Agriculture, Forestry, and Home Economics. In 1939 the Department of Journalism was discontinued as a unit in the College of Arts and Sciences and became the School of Journalism. The same year a Department of Art was established in the College of Arts and Sciences. In 1940 the College was further enlarged by the inclusion of a Department of Social Administration, authorized to offer a graduate curriculum leading to the professional Certificate of Social Work. In 1941 the name was changed to the Department of Social Work and in 1944 the Department was authorized to establish an undergraduate curriculum in social work leading to the Bachelor of Science Degree.

In 1950 the Board of Governors authorized the degree of Master of Social Work and approved the establishment of a two-year curriculum leading to that degree. In 1944 a four-year course leading to the B.S. (Medical Technology) Degree was approved to be given jointly by the College of Arts and Sciences and the School of Medicine. In 1948 the Board of Governors approved an order authorizing the College of Arts and Sciences to offer a general course as an integral part of its curriculum and an optional lower-division program of general studies. In 1951, the Department of Business Administration was discontinued as a unit in the College of Arts and Sciences and converted into the College of Commerce. In 1953 the School of Dentistry was established. In 1958, the College of Pharmacy was reconverted into the School of Pharmacy, marking the integration of the School into the University's expanding medical sciences program. The University's Kanawha Valley Graduate Center of Science and Engineering was established at Institute, with the first classes beginning in September of 1958. In 1960 the School of Physical Education and Athletics was changed to the School of Physical and Health Education, Recreation, and Safety. In 1960 the School of Nursing was established.

PRESIDENTS OF THE UNIVERSITY

The University has had thirteen regular presidents, eleven acting presidents, and one chairman of the faculty. Together with their periods of service, they were Alexander Martin, April 3, 1867-August 12, 1875; Vice-president John Work Scott (acting), September 6, 1875-March 27, 1877; John Rhey Thompson, March 28, 1877-

March 12, 1881; Vice-president Daniel Boardman Purinton (acting), March 13, 1881-1882; William Lyne Wilson, 1882-1883; Robert Carter Berkeley (Chairman of the faculty), 1883-1885; Eli Marsh Turner, 1885-July 21, 1893; Vice-President Powell Benton Reynolds (acting), July 24, 1893-1895; James L. Goodknight, 1895-August 6, 1897; (from August 6 to August 19, 1897, Vice-president Robert Allen Armstrong was nominally acting president); Jerome Hall Raymond, August 10, 1897-1901; Powell Benton Reynolds (acting), March 21, 1901-July 31, 1901; Daniel Boardman Purinton, August 1, 1901-July 31, 1911; Alexander R. Whitehill (acting), August 1, 1911-September 30, 1911; Thomas Edward Hodges, October, 1911-August 31, 1914; Frank Butler Trotter (acting), July 9, 1914-1916; 1916-1928; John Roscoe Turner, 1928-December 31, 1934; Robert Allen Armstrong (acting), January 1, 1935-September 30, 1935; Chauncey Samuel Boucher, October 1, 1935-August 31, 1938; Charles Elmer Lawall (acting), September 1, 1938-1939; 1939-August 31, 1945; Charles Thompson Neff, Jr., (acting), September 1, 1945-1946; Irvin Stewart 1946-1958; Clyde Lemuel Colson (acting) August 26, 1958-January 31, 1959; Elvis Jacob Stahr, jr., February 1, 1959, (On Leave of Absence as Secretary of the Army 1961-); Clyde Lemuel Colson, (acting 1961-).

Description

THE PHYSICAL PLANT

West Virginia University's main campus comprises 74.35 acres near the center of Morgantown. Its Evansdale campus, about one and one-half miles northwest of the main campus, consists of approximately 260 acres acquired in 1948. This campus is the site of the new buildings of the Colleges of Agriculture and Engineering, now under construction. In 1951, the Monongalia County Court deeded to the University approximately 85 acres of land adjoining 55 acres already owned by the University. This 140-acre tract, about one and one-half miles north of the main campus, is the site of the new University Medical Center. In 1960 the University acquired 58.05 additional acres in the area across a road from the Medical Center Mechanical Plant. This acreage is adjacent to 3 acres bequeathed to the University. The first building of the Center, the Mechanical Plant, was completed in 1954. The Basic Sciences Building was opened for classes in September, 1957. Construction was completed on the University Hospital in December, 1959.

Much of the main campus is on high ground overlooking the Monongahela River and the surrounding countryside. The physical plant includes 49 state-owned buildings or structures on campus, five demonstration and experimental farms near Morgantown, four additional experimental farms and two agricultural extension centers located at suitable points throughout the State, a summer surveying camp for civil and mining engineering students, and a summer camp for forestry and biological sciences students. A new women's dormitory was put into use in September, 1957. An addition to Men's Hall, accommodating 250 students, was put into use in September, 1959.

MAIN CAMPUS STRUCTURES

Structures on the main campus, with the dates of their completion or acquisition, are: Martin Hall, 1870; Woodburn Hall, 1876; Agricultural Experiment Station (the present central part served as the University Armory from 1873 to 1888), 1899; Science Hall, 1893; Armory, 1902; Administration Building (which was the old Library), 1902; President's Home, 1905; Heating Plant, 1906; Placement Office, 1914; Horticultural Greenhouse, 1915; Oglebay Hall, 1918; Women's Hall (the wings were added in 1935), 1919; Plant Pathology Greenhouse, 1920; Law Building, 1923; Speech Annex (was the University cafeteria until 1947, now houses scene shops of the Department of Speech and shops of the Department of Buildings and Grounds), 1924; Mountaineer Field, 1925; Hall of Chemistry, 1925; Elizabeth Moore Hall, 1928; Field House, 1929; University Library, 1931; Deahl Hall, to 1948 the "University Rural High School," 1933, Men's Hall, 1935; Oglebay Hall Annexes, 1933 and 1937; Reynolds Hall (formerly

Woodburn Hall, located on the Main Campus, was built in 1876—the second oldest building at the University. This famous landmark houses several departments of the College of Arts and Sciences and other University divisions.

"Commencement Hall," completed in 1893), 1940; Mineral Industries Building, 1942; University Health Center, 1942; Terrace Hall, 1942; Home Management House, 1942; Forestry Building, 1946; Stoker Laboratory, 1946; Cafeteria, 1947; Mountainlair, 1948; Armstrong Hall, 1950; Brooks Hall, 1951; Physics Building, 1952; Music Building, 1954; New Women's Dormitory, 1957; Medical Center Basic Sciences Building, 1957; Engineering Buildings Nos. 1 and 2, 1957; Men's Hall Addition, 1959; Honors House, 1960; Laurel Cottage, 1960; 719 College Avenue, 1960; and University Hospital, 1960.

FARMS

The farms, with dates of acquisition, are: Dairy Husbandry Farm, 175 acres (1899) and 29.5 acres (1941); Horticulture Farm, 62.5 acres (1916); Animal Husbandry Farm, 321 acres (1916) and 262.5 acres (1941), including a portion for poultry husbandry; Agronomy Farm, 102 acres (1916) (6 acres donated to College of Engineering for airplane hangar in 1943, 15.7 acres transferred to City of Morgantown (1946) for runway extension in exchange for 52.3 acres at County Farm); total acreage of Agronomy Farm, 132.6 (1947); and Poultry Husbandry Farm, 20 acres (1916), all near Morgantown; University Experiment Farm at Kearneysville, Jefferson County, 158

acres (1930); Reymann Memorial Farms at Wardensville, Hardy County, 930 acres (1917) and 57 acres (1953); Reedsville Experiment Farm, Preston County, 457 acres (1944); Ohio Valley branch, Mason County, 150 acres (1948); Tygart Valley Farm (Forestry), Randolph County, 495 acres (1949); Camp Russell Love Morris (Engineering), Preston County, 53.5 acres (1950).

The agricultural extension centers, with dates of establishment, are the State 4-H Camp at Jackson's Mill, Lewis County (1921), and the Recreation Center at Oglebay Park, Ohio County (1926).

THE ARBORETUM

Approximately 80 acres of mostly wooded land along the west side of Monongahela Boulevard were set aside in 1948 for growing trees, wildflowers, and other plants, and for their display for students of botany, forestry, horticulture, etc., as well as for the general public. Footpaths have been constructed to provide access to various parts of the Arboretum.

LOCATION

The main campuses of the University are in Morgantown, Monongalia County, 80 miles southeast of Wheeling and 200 miles north of Charleston. The community is served by the Baltimore and Ohio Railroad (limousine service between Morgantown and Grafton), Lake Central Airlines, thirty truck systems and five bus lines, and W. Va. Routes 7, 73 and 92, and U. S. Routes 19 and 119. Morgantown is located on the Monongahela River, 72 miles south of Pittsburgh, Pa. Half of the population of the United States is within 500 miles of Morgantown.

ORGANIZATION

Operating Funds

Funds for operating the University's various divisions are derived from the following sources: (1) interest on the land-grant endowment of $129,600; (2) annual appropriations by the Legislature; (3) Federal Morrill-Nelson and Bankhead-Jones funds; (4) student activities fees; (5) Hatch Act, Amended; (6) Agricultural Extension Consolidated; (7) tuition of high school students paid by Monongalia County Board of Education; (8) income derived from sale of farm and dairy products, as well as income from athletics, dormitories, dining halls, book store, student activities, hospital clinics, etc.; (9) grants by Federal agencies for special research and extension projects; (10) contributions by private benefactors for the support of scholarships, loan funds, and prizes, and (11) revenues from the State soft-drink tax dedicated to the establishment of a medical center for teaching and research in medicine, dentistry, nursing, and medical technology.

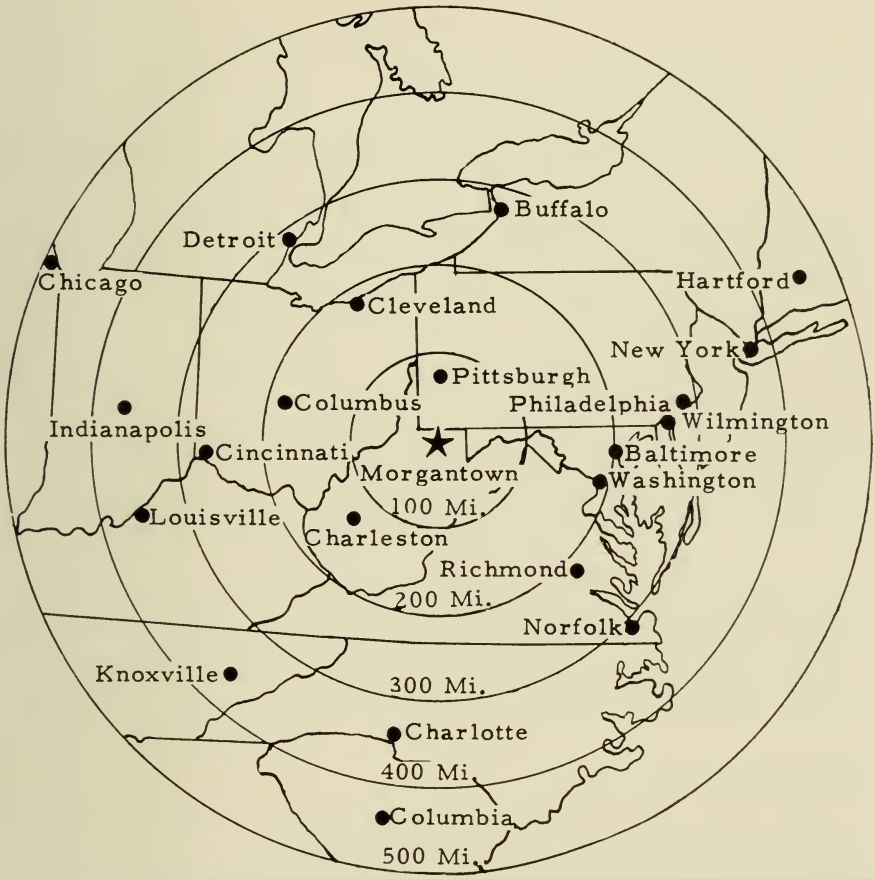
ACCREDITATION

West Virginia University is a member of the North Central Association of Colleges and Secondary Schools. It is accredited by the North Central Association and various accrediting agencies.

GOVERNMENT

Direction of educational, administrative, financial, and business affairs of the University is vested in the Board of Governors. The board is bipartisan and consists of nine members who are appointed by the Governor with staggered terms of service.

The University year is divided into two semesters of approximately eighteen weeks each and a Summer Session of two terms of six weeks each.



This map depicts the fact that West Virginia University is located within one-half of the Nation's population in a 500-mile radius of Morgantown.

Acting in an advisory capacity to the President and assisting him in carrying out established University policies is a *Council of Administration,* composed of the President, the Vice-President, the Registrar, and the deans of all colleges and schools, as well as other administrative officers who may be requested to take part in the deliberations of the Council.

The *University Senate,* a legislative body with jurisdiction over all academic matters that concern the entire University and all matters that concern more than one college or division, is composed of the President, the Vice-President, the Registrar, all professors, associate professors, and assistant professors in all colleges, schools, and divisions, and all heads of departments.

The *Graduate Faculty,* composed of all members who teach courses on the graduate level, sets the specific requirements and standards of quality for admission to candidacy for graduate degrees and for the awarding of graduate degrees.

The *Committee on Student Affairs* acts as an integral part of the whole organization of the University. Its program is bound up with that of the University as a whole, designed to serve the larger academic and social objectives of modern education. For a list of members, see pages 6-7.

COLLEGES AND SCHOOLS

The components of the University, together with dates of establishment of the various colleges and schools, etc., follow:

Colleges: College of Arts and Sciences, 1895; College of Law, 1895; College of Engineering and Mechanic Arts, 1895 (changed to College of Engineering in 1960); College of Agriculture, 1895; College of Education, 1927; College of Pharmacy (changed to the School of Pharmacy in 1958), 1936; and the College of Commerce, 1952.

Schools: School of Music, 1897; the Summer Quarter, 1898-1900, Summer School, 1902-1931, and Summer Session, 1932; School of Medicine, 1912; School of Mines, 1926; Graduate School, 1930; School of Physical and Health Education, Recreation, and Safety, 1937; School of Journalism, 1939; School of Dentistry, 1953; School of Pharmacy (formerly the College of Pharmacy), 1958, and School of Nursing, 1960.

Divisions: Division of Military Science and Tactics, 1911; Division of Military and Air Science and Tactics, 1949; Division of Military Science and Tactics and Air Science, 1955; Division of Military and Air Science, 1960; Division of Home Economics, 1937; and the Division of Forestry, 1937.

Experiment Stations and Research Bureaus: Agricultural Experiment Station, 1888; Engineering Experiment Station, 1921; Government Research Bureau, 1931-1935, 1949; and the Bureau of Business Research, 1949.

Extension Service: Agricultural Extension, 1912; Mining and Industrial Extension, 1914; Education Extension, 1915; Liberal Arts Extension, 1916; University Extension, 1930; and the Institute of Industrial Relations, 1956.

The College of Agriculture, Forestry, and Home Economics; the College of Arts and Sciences, the College of Engineering; the School of Music, the School of Mines, and the School of Physical Education and Athletics are all degree-granting units admitting freshmen. The College of Education, the College of Commerce, the School of Dentistry, the School of Journalism, the School of Medicine, and the School of Pharmacy are professional colleges and schools requiring from two to three years of academic training as a foundation for professional work. All graduate instruction is administered by the Graduate School through the Graduate Faculty.

UNIVERSITY EXTENSION

The work of this division is under the supervision of the Director of University Extension. The work given in extension courses corresponds in every particular to that given in the same courses on campus. Students taking extension courses for credit must satisfy all requirements for admission to the University and, before registering, must file with the Registrar of the University complete official transcripts of record.

The *maximum undergraduate credit* that may be counted toward any degree for extension work conducted by the University is 48 semester hours. The *maximum undergraduate credit* that may be counted toward a degree for extension work taken in other institutions is 30 semester hours. No more than 15 hours of work taken in *graduate extension courses* may be counted toward any degree, and of these only 8 semester hours may be in one field. Education majors are limited to 12 semester hours that may be counted toward the completion of the Master's Degree. No more than 8 of these hours can be taken in extension prior to earning 6 hours in Education *in residence* in the University. For other regulations on graduate extension for Education majors see the *Announcements* of the College of Education.

No University extension courses may be offered for credit without the approval of the Director of University Extension. Library and laboratory facilities for each course must be approved by the Director and, in case of courses for graduate credit, by the Dean of the Graduate School. Reference books for the use of extension students may be borrowed from the University Library upon the order of the Director of University Extension, subject to the approval of the Library committee. Postal charges must be paid by the individual or groups for whom the books are borrowed.

A fee of $12 per semester hour is charged for each extension course offered.

For further information write to the Director of University Extension.

Guided Reading Course (Correspondence)

The Extension Division offers twelve reading courses through correspondence. While these courses are offered in cooperation with the West Virginia Federation of Women's Clubs, any adult may enroll for any of these courses by applying to the Director of University Extension. The fee is $1 per course. The reader sends in short reports on the books he reads in each course. When the course has been satisfactorily completed, a progress card from the West Virginia University Extension Division is awarded. These courses carry no University credit but are designed to provide adults with some of the best reading materials in the areas covered through this program. The courses include: (1) World Affairs; (2) Modern America; (3) Psychology for Everyday Living; (4) Happy Family Relationships; (5) Novel and Biography; (6) Ideas in Conflict; (7) The Home Beautiful; (8) Design for Outdoor Living; (9) Leadership; (10) So You've Been Elected; (11) Science and the Modern Man, and (12) Something About Art.

Labor Education Service

The purpose of the Labor Education Service of University Extension is to provide education to individuals and groups who request it.

While most of the work in Labor Education is with organized labor groups, the Service does offer help to other adult groups in such areas as consumer education, health, welfare and social security benefits, and economics. Persons desiring further information should write University Extension for more particulars.

Evening Education

The University offers a program of evening classes for the benefit of those who wish to continue their education beyond the high-school level and who are unable to attend the usual day classes.

All courses are taught by resident faculty members and carry full college residence credit. Many of these courses may be counted toward advanced degrees.

THE SUMMER SESSION

The Summer Session is held from June through August. The session is made up of two terms of six weeks each.

University High School will be in session the first nine weeks for secondary-school student teaching, practice supervision, and observation. The University Laboratory Elementary School also will be in session during the first six weeks for elementary school observation and practice supervision.

Requirements for admission and character of the work offered are the same for the Summer Session as for the regular academic year.

Credit may be obtained towards the Bachelor's and Master's Degrees in most departments and toward the Doctorate in some departments. Offerings are varied from summer to summer so that students may complete the work for the Master's Degree by attending summer sessions only.

For complete description of courses, see the *Summer Session Bulletin.*

INTERCOLLEGIATE ATHLETICS

The basic objectives of Intercollegiate Athletics at West Virginia University are:

1. To provide an opportunity for students highly skilled in athletic sports to develop their ability as a preparation for coaching positions, as teachers of physical education, and for their own physical, social, and emotional improvement.

2. To develop an understanding and an appreciation of the place which intercollegiate sports occupy in American culture and to develop sound educational attitudes toward sports.

3. To educate the student body in the appreciation of sports and the best way to enjoy them from the point of view of good sportsmanship.

4. To serve as a focal point for the morale, spirit, and loyalty of the students by providing a common meeting ground and enthusiasm.

5. To provide a wholesome program of sports in which students, alumni, and friends of the University may share, to the end that the loyalty of these groups to the University and its work may be constantly renewed, strengthened, and united.

Additional objectives of the Intercollegiate Athletic program are:

1. To set desirable examples of good physical skill, team play, sportsmanship, health habits, and other characteristics that go with skilled sports, both individual and team.

2. To provide a living laboratory of democracy in action, where all players are treated without favor or prejudice, to learn to respect the rights of others, obey the rules, and judge others for what they can do.

3. To broaden the social experience of players and spectators through travel, visiting other schools, and making the acquaintance of other young people of similar age.

Activities of the Department of Intercollegiate Athletics are administered, under the President of the University, by the Director of Intercollegiate Athletics and by the Athletic Council. The council is composed of seven members: four faculty, two alumni, and one student. The Dean of the School of Physical Education and Athletics serves as a member, and the Director of Athletics is the executive officer.

Instruction and training are given each year in the seasonal sports such as football, cross-country, basketball, wrestling, baseball, swimming, gymnastics, track, tennis, rifle, and golf. Matters concerning athletic eligibility regulations are decided by the Athletic Council. Scholastic eligibility regulations are established by the faculty of the University.

The rules and policies of the Southern Conference govern participation in intercollegiate athletics. In addition, sophomores must have a 1.5 grade-point average, juniors a 1.7 average, and seniors a 1.9 average.

INTRAMURAL PROGRAM

A broad intramural sports program for men and women is provided by the School of Physical and Health Education, Recreation, and Safety. It aims to encourage all students to participate in organized sports and wholesome recreation. Competition is promoted between student groups and individuals. Such natural groupings as classes, fraternities, sororities, dormitories and other nonfraternity units form the basis for activity in competitive sports.

The following activities are conducted for men: speedball, tennis, volleyball, handball, basketball, swimming, relays, golf, bowling, archery, basketball free throwing, softball, horseshoes, and outdoor track. Other activities may be organized when there is sufficient interest on the part of students and when facilities permit. Leagues are organized to accommodate fraternities, residence halls, and nonfraternity groups.

The following activities are conducted for women: volleyball, badminton, swimming, basketball, bowling, softball, table tennis, shuffleboard, archery and tennis. Interclass tournaments for Physical Education majors are held in the following activities: volleyball, badminton, basketball, swimming, tennis, and softball. As the demand for more activities develops and when facilities become available, the program will be broadened.

Health, physical development, and the development of skills in the dance and in swimming are the aim of two organizations, *Orchesis* and the *Dolphin Club*. Open to all University students who can pass the course and skill requirements, these two organizations include among their activities the writing and production of dance and water shows for the entertainment of all members of the University community.

ASSOCIATED INSTITUTIONS

The West Virginia Academy of Science was organized in 1924 to bring about closer affiliation among scientists of the State and to encourage the pursuit of scientific work in West Virginia. It is now a body of nearly five hundred persons

who are interested in the service of science in the development of the State. Members are widely distributed throughout the State and adjoining states and are representative of colleges, high schools, and industries. A Collegiate Academy and a Junior Academy are sponsored by the Senior Academy. Annual meetings, held at the various institutions of higher learning, are divided into sections on biology, chemistry, geology and mining, mathematics and physics, education, psychology, and social sciences. The *Proceedings* of the annual meetings are published under the auspices of the University and the Academy.

The West Virginia Geological and Economic Survey, situated at West Virginia University, is governed by its own commission and receives separate appropriations. The Geological Survey was founded by an Act of the Legislature in 1897 and has functioned consistently since that date. It is recognized as one of the leading state surveys.

One of its major purposes is to have members of the staff, specialists in their field, investigate all natural resources, especially mineral resources of the State, and make results of the investigations available to the public in the form of written reports and maps.

Accomplishments of the Survey include geologic and topographic mapping of the State, as well as preparation of numerous special reports on the State's mineral and other natural resources. A new topographic mapping program, using aerial photographs, is well under way.

The professional staff is composed of eight geologists, a petroleum engineer, two chemists, an engineer cartographer, and a spectroscopist. There is close cooperation between the Geological Survey and the Department of Geology of the University. Three geologists from the U. S. Geological Survey are assigned here for cooperative studies on ground waters. The large collection of well cuttings and cores on file brings petroleum geologists here to study them.

Government of the Survey is vested in the Geological Survey Commission, composed of the Governor of West Virginia, the State Treasurer, the Commissioner of Agriculture, the President of the University, and the Director of the West Virginia University Agricultural Experiment Station.

The Materials Laboratory of the State Road Commission is housed in Engineering Building No. 2. Its work includes testing of all materials used by the Commission and research problems of road construction and maintenance in West Virginia. The State Road Commission and the College of Engineering cooperate on research and development programs.

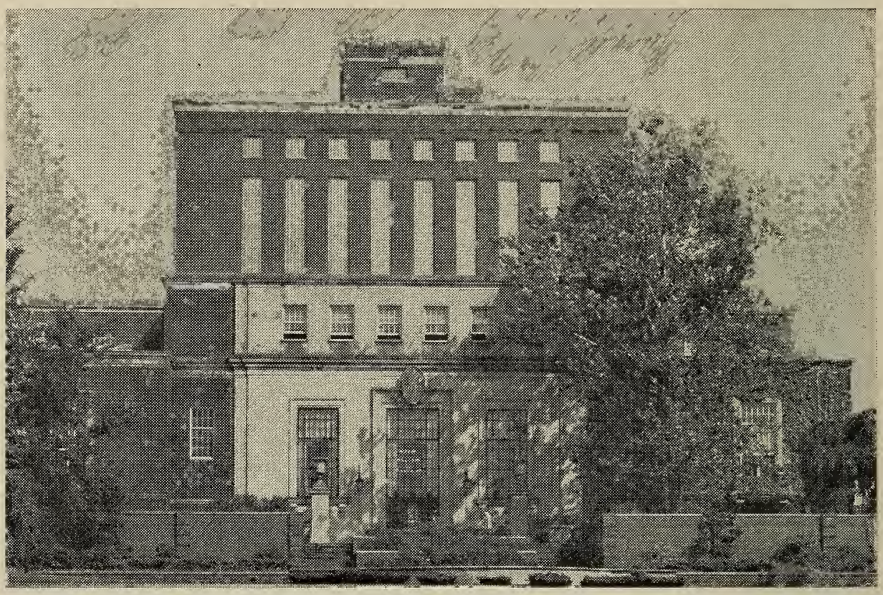
SERVICES

LIBRARY

The Library provides books and related materials for teaching, research, and cultural purposes. It maintains well-balanced collections in all subject fields included in the University curricula. Although primarily intended to supply the needs of the faculty and students of the University, the collections are available to any resident of West Virginia through the Library Extension Service Department. Facilities are available for the reproduction of material by microfilm and photostat.

The Main Library's holdings include more than 430,000 books and government documents, 33,000 maps, 10,000 pamphlets and other uncataloged items, and 7,000 reels of microfilm. About 3,500 periodicals are received currently. The West Virginia Collection contains three million pieces consisting of manuscripts, books, papers, and county court records relating to the history and development of the State. The Library is a depository for the United States Atomic Energy Commission. The Audio-Visual Department has 1,700 educational motion-picture films and 600 filmstrips available to members of the University and to groups throughout the State, and a collection of 3,000 musical and speech recordings for campus use. The Medical Center Library contains approximately 42,000 volumes. These titles appear in the catalog of the Main Library and are available to all members of the University community. The Law Library, housed in the College of Law, contains approximately 63,000 volumes.

During regular sessions, except on holidays and vacations, the Library is open from 7:55 A.M. to 10:00 P.M., Monday through Friday; from 7:55 A.M. to 5:00 P.M. on Saturdays; and from 2:00 P.M. to 10:00 P.M. on Sundays. During the Summer Session



The University Library, a vast storehouse of knowledge, contains over 430,000 volumes. The student spends much of his time here in studying, reading books and periodicals, and in research work.

the weekday hours are from 7:55 A.M. to 9:00 P.M.; and only the Reserve Collection is available on Sundays from 2:00 P.M. to 5:00 P.M. During periods when the University is not in session, the hours are from 9:00 A.M. to 5:00 P.M. Monday through Friday; 9:00 A.M. to 12:00 noon Saturdays; closed all day Sundays and holidays (New Year's Day, Memorial Day, July 4, Thanksgiving Day, and Christmas Day). Changes in scheduled hours are posted in advance.

UNIVERSITY PERSONNEL DEPARTMENT

The University Personnel Department was created to provide a variety of personnel programs designed to assist the Teaching, Research, Administrative, Service and Maintenance Departments of the University to perform their vital functions. These programs include applicant recruiting, testing and employment of full-time, part-time and student employees; wage and salary administration for all non-academic employees; benefit program administration; employee training, and special employee services.

The Central Personnel Department is located to the rear of the Administration Building on the Main Campus. It may be reached by using the walk way which runs between Reynolds Hall and the Administration Building leading to the shop area of the Building and Grounds Department. A branch office of the central Personnel Office is located in the University Hospital on the Medical Center Campus.

The employment office of the central Personnel Office and the Medical Center branch offices are both concerned with University-wide employment opportunities existing on all compuses. Therefore, one application submitted at either convenient office is all that is necessary to be considered for any opportunity existing on any campus of the University.

The benefit program is administered at the central Personnel Office on the main campus. Special services include benefit orientation for all new employees, the processing of all claims for benefits resulting from membership in the benefit plans, and special individual counseling upon the employee's request concerning the

University benefit programs and available supplemental programs leading to estate and protection planning. Enrollment in the University benefit programs are conducted at both office locations.

Student Employment

Students seeking full-time or part-time employment on or off the campus will receive service and assistance from the Personnel Office. All employment opportunities will be posted each week on bulletin boards located on all three campuses. In addition, a listing of job opportunities will appear each week in the *Daily Athenaeum*. Any student interested in a position which has been listed should go to either Personnel Office during the regular hours and apply for the position. If he is qualified he will be given a referral introduction to the prospective employer, whom he will contact directly.

EMPLOYMENT AND PLACEMENT

The Senior and Alumni Placement Service

The University Placement Service is maintained to provide assistance in vocational and job selection. This centralized service of the University does not end with placement of the student on his first job, but may be referred to at any time in the future.

The Placement Office is on Hunt Street across from the Physics Building. In addition to registration procedures, which include counseling in the techniques of job application, this service analyzes the changing market for graduates, assists alumni seeking promotion or change of position, cooperates with all individuals and agencies interested in placement, and is engaged in continuous research in the interest of improving these services. A meeting place is provided for students seeking jobs, visiting company and educational representatives, and faculty members whose comments are sought by employers.

A vocational library is maintained to assist any student having difficulty in deciding upon a career as well as to enable those graduating to review the kinds of opportunities available in their fields.

(The Placement Office cannot furnish credentials to commercial agencies.)

THE PHARMACISTS' REGISTER

A pharmacists' register for the benefit of both the employer and the employee has been established by the School of Pharmacy.

No charge is made for these services.

HEALTH SERVICE

The University Health Service provides medical care to students of the University and supervises general campus health conditions. The staff includes four full-time and two part-time physicians, six nurses, two laboratory technicians, and clerical personnel. The University Pharmacy, housed in the Health Center, is managed by the School of Pharmacy. The Departments of Pathology and Microbiology cooperate in the laboratory examination of diagnostic materials.

The Health Service occupies the University Health Center constructed in 1942. This three-story building is centrally located, fronting on College Avenue adjacent to Reynolds Hall. It is built of brick and concrete and is fireproof throughout. On the first floor are the treatment rooms, offices, and pharmacy. The second floor is occupied by laboratory and X-ray departments, and offices for physicians. The third floor contains a well-equipped infirmary.

The Health Service is in operation from 8:00 A.M. to 5:00 P.M. daily except Saturday and Sundays. Saturday hours are 8:00 A.M. to noon. Physicians are in attendance from 9:00 A.M. to 12:00 M. and 2:00 P.M. to 4:00 P.M. A nurse is present at all times in the Infirmary, and a University physician can always be reached by calling the Health Service, Extension 294 on the University exchange.

Each regularly enrolled University student pays a fee which provides for medical consultation and advice from University physicians. Moderate additional charges are made for room calls, X-rays, laboratory tests, minor operations, treatment of fractures, and drugs furnished by the Health Service or Pharmacy.

On his first enrollment in the University a student receives a complete physical examination which includes a blood test and urinalysis. The Health Service also gives special physical examinations to students in competitive athletics, to University food handlers, to employees of the Buildings and Grounds department, and to other groups as occasion may arise.

The Infirmary

Students who need bed care for medical illness are hospitalized in the University Infirmary. The Infirmary is open only to full-time students. It is the policy of the Health Service to have all students requiring such care in the Infirmary. Students hospitalized in the Infirmary are under the care of Health Service physicians, although other qualified physicians may be seen in consultation when necessary. Patients will be admitted and discharged on the order of Health Service physicians.

Upon admission to the Infirmary the student receives two days of hospitalization without charge except for laboratory, X-ray, special medications, and private duty nurse fees. No additional charge is made for general nursing care, dressings, routine medications as commonly supplied by the Health Service, and food as ordered by the physician in charge. Laboratory examinations, X-rays, penicillin, and similar medication will be charged at the usual Health Service rate to students. Special nurses, when necessary, are at the expense of the student.

A student may not receive more than thirty days hospitalization for any one illness. Patients are to leave when discharged by the University physicians. When it becomes evident that a student's illness will be so prolonged as to prevent his completing work of the current semester, he may be discharged from the Infirmary when the attending physician or the Director of the Health Service considers that he may be moved without undue danger to his health. The services as indicated above are subject to the availability of space in the Infirmary. Twenty-two beds at present are ready for use.

Student Insurance

A voluntary insurance plan is available to students to supplement the medical care offered by the Health Service. This plan provides for payment for hospitalization, surgeon, and consultant's fees, and other medical costs throughout the year, both in Morgantown and elsewhere. For cost of this insurance and details concerning coverage see the brochure available at the Health Service.

MOUNTAINLAIR

Mountainlair, the student center, was opened May 14, 1948 to provide members of the University with a general recreation and service center.

Situated at the Northeast end of Mountaineer Field, the student center contains a large combination snack bar-cafeteria, four bowling alleys, a lounge with television and radio, meeting rooms, office space, and a huge ballroom which doubles as a game room. A smaller upstairs ballroom is used for small dances, movies, meetings, etc.

Service at the Information Desk is the keyword. As the campus information center, this booth renders many worthwhile services to accommodate the University Community.

The Mountainlair Swimming Pool was opened in August, 1951. The pool is of regulation intercollegiate size; and in addition to providing recreational swimming opportunities for University personnel, it serves as the home of the University's swimming team.

The Mountainlair staff devotes its full time to creating and maintaining a pleasing atmosphere for students' leisure-time activities and to setting up an adequate

Mountainlair, University student recreation center, features social activities that are carefully planned and supervised. A full-time director and other staff members help student committees in planning the Mountainlair events.

program designed to fit many individual needs of students. The activities are planned by the students with the coordination of the Program Director.

The building is open from 7:30 A.M. to 10:30 P.M. Monday through Thursday, 7:30 A.M. to 11:30 P.M. Friday and Saturday, and 2:00 P.M. to 10:30 P.M. Sunday.

COMMUNICATIONS AND PUBLICATIONS

University Broadcasting

Broadcasting to the people of West Virginia was established by the University in May, 1938, when Station WMMN, Fairmont, began a series of radio programs originating on the campus. Since then, the production of radio and television programming has expanded on a steady basis over the years. All University programming is of an educational, informative, or entertaining nature.

In addition to the regular program commitments and special events broadcasts, the University welcomes coverage by all radio and television stations of campus events and subjects.

Present broadcasting facilities are housed in the Administration Building and their use is under the supervision of the Department of Speech and the Office of Educational Broadcasting. Facilities include studio and control room, fully equipped

for professional radio broadcasting, and are used primarily by radio students in the Department of Speech for training purposes.

Television and radio programming for distribution to commercial and educational stations is under the direction of the Office of Educational Broadcasting. Advanced students from the Department of Speech participate in the actual preparation and production of programs.

College of Agriculture, Forestry, and Home Economics produces its own programs through the Agricultural Extension Service Editorial Office and also participates in programming through the Office of Educational Broadcasting.

Coverage of University sporting events is under the supervision of the Athletic Council and the office of the Director of Intercollegiate Athletics.

Students in the School of Journalism study radio and television techniques to become proficient in their use in news broadcasting. The School provides television films of special campus and town events on request by commercial stations. Practice in news gathering and writing is given in laboratories conducted at local commercial radio stations.

Television Programming

West Virginia University Television Network—Nine West Virginia television stations via live, video tape, and film programming join together to carry special series of University programs.

Special Programs—Productions are presented regularly over area television stations including WBOY-TV, Clarksburg; WTRF-TV, Wheeling; and WQED-TV, Pittsburgh.

Radio Programming

"West Virginia University Radio Network"—More than 40 West Virginia radio stations carry weekly programming from the University. These programs cover a wide variety of subjects and originate from every area of the University.

Special Programs—Productions on specific subjects are made available to stations on regular schedules; these programs are in addition to the weekly offerings.

Communication Arts Center

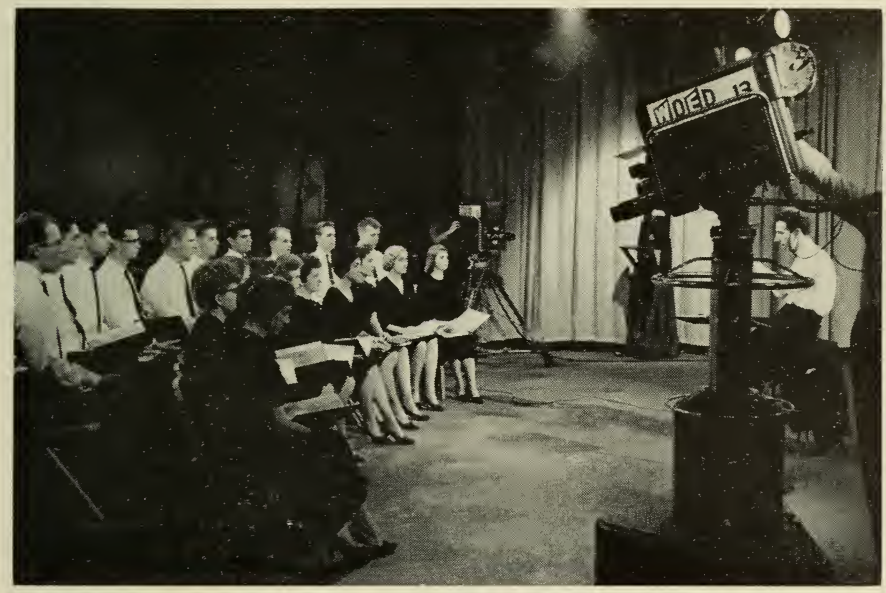
This main campus building is the future location of the Department of Speech training facilities for television and radio students; production facilities for television and radio programming by the Office of Educational Broadcasting, and for on-campus closed-curcuit teaching; and the Audio-Visual Resources Center. The two-phase construction has already begun. The building will be located behind the Administration Building.

The television and radio areas will include two large television studios, two television control rooms, television projection and video tape room, two radio studios, two radio control-room studios, and the offices and other essential areas. The facilities will be equipped with up-to-date cameras, tape recorders, audio equipment, and components.

Publications

The following publications are issued regularly at the University:

1. The *West Virginia University Bulletin* is issued monthly. The series includes this *Catalog* and the *Announcements* of the various colleges, schools, divisions, and other occasional publications.
2. The bulletins and circulars of the Agricultural Experiment Station.
3. The circulars of the Agricultural Extension Service, including *Farm Women's Club* leaflets, 4-*H Suggestions, Treasures of the Trail,* and special pamphlets.
4. Agricultural News Service bulletins published weekly by the College of Agriculture.
5. The bulletins of the Engineering Experiment Station and of the School of Mines.



Members of the University Choir of the School of Music participate in cultural educational programs produced by the Office of Educational Broadcasting. Students from all areas of the University take part in these programs as talent and assistant producers. Other television and radio programming deal with a variety of subjects. These programs are of an informative, inspirational, and educational nature.

6. The *West Virginia Law Review,* official publication of the West Virginia Bar Association, edited by the faculty of the College of Law.

7. Miscellaneous publications under the title of *Philological Papers* or *Biological Studies.*

8. *The Student Directory,* annual directory of the student body, published by the University Book Store.

9. The annual *Proceedings* of the West Virginia Academy of Science.

10. The West Virginia *Fourth Estatesman,* a quarterly publication edited by the faculty of the School of Journalism.

11. *Notes for New Mountaineers* is published under the direction of the Office of Publications. It is distributed to each member of the entering class, to transfer students, and to foreign students.

12. *The Faculty Directory* is issued in the fall by the Office of Publications.

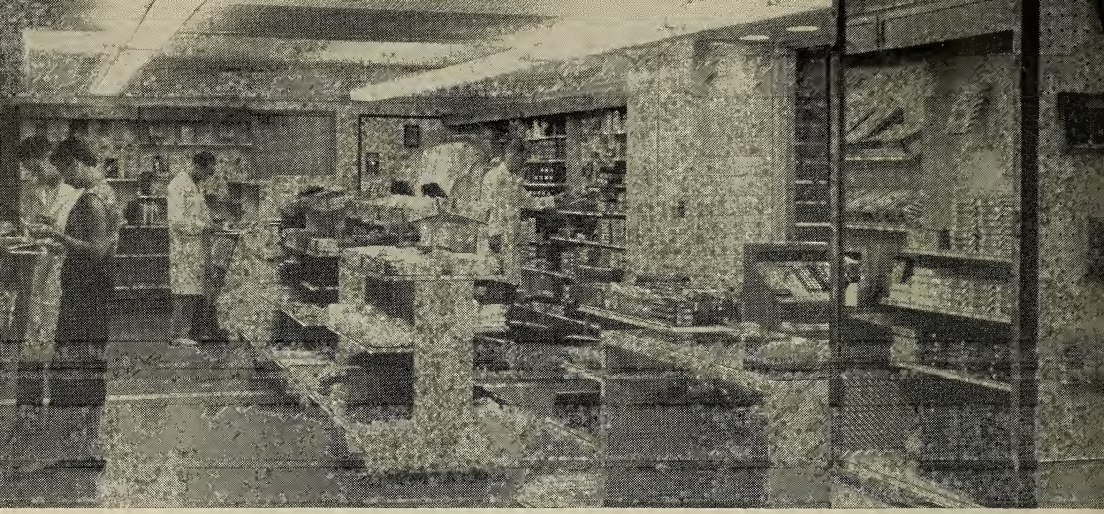
13. Miscellaneous publications of the Bureau for Government Research and the Bureau of Business Research.

14. The *Daily Athenaeum,* student-edited newspaper, is published Tuesday through Friday mornings by students of the School of Journalism. Heads of the editorial and business staffs are appointed by the University Committee on Student Publications from a list of eligible candidates certified by the Dean of the School of Journalism.

15. The *Monticola,* student yearbook, is published by upperclassmen. The editorial and managerial staff is appointed by the University Committee on Student Publications.

BOOK STORE

The University operates on each of its three campuses a complete book and stationery store where students may purchase at discounted prices the books, supplies and professional equipment needed in connection with their class work.



The Medical Center Book Store, a branch of the Main Campus Book Store, carries a complete selection of textbooks, special laboratory equipment, and supplies for students and faculty. Another branch store is operated on the Evansdale Campus in the Engineering Sciences Building.

The Book Store on the main campus is located in the Book Store Building, with entrances from both Hunt Street and University Avenue. The Medical Center Branch Book Store is in the Basic Sciences Building, ground floor, across from the Snack Bar. The Evansdale Campus store is in the Engineering Sciences Building, ground floor, across from the Student Lounge.

The stores sell new and used textbooks and buy back from students their used textbooks. They stock books other than textbooks in all categories, art prints, general school supplies, office supply items, medical and engineering instruments and supplies, physical education uniforms for men and women, sporting goods, and University-imprinted souvenir, gift and wearing apparel merchandise.

CAFETERIA

The Cafeteria is open for three meals daily except Sunday. There is no breakfast on Sunday. The Cafeteria is open every weekend while school is in session. It observes all University holidays and opens and closes with the University schedule.

SPEECH AND HEARING REHABILITATION CLINIC

The Speech and Hearing Clinic, operated under the direction of the Department of Speech, offers services to all students in need of treatment for various types of speech disorders such as articulation, voice, and stuttering problems. In addition, work is done with students who have hearing problems. Non-students who have speech defects resulting from cleft palate, cerebral palsy, brain lesions, deafness, etc. also receive diagnostic workups and therapy if indicated. All work is in charge of professionally trained and fully qualified speech clinicians who have been certified for this type of work by the American Speech and Hearing Association. The clinic contains specially designed rooms which permit individual as well as group therapy with children and adults. Therapists in training at both the undergraduate and graduate level participate in therapy under supervision. Plans are being formulated for establishing additional services in the Speech and Hearing Clinic of the University Hospital.

FACULTY ORGANIZATIONS

American Association of University Professors. The West Virginia University chapter of American Association of University Professors has a membership of ap-

proximately one hundred and twenty. The present officers are: William D. Barns, president; Wesley M. Bagby, vice-president; and Mary Rose Jones, secretary.

Faculty Club. The Faculty Club of the University, organized March 10, 1921, is composed of teaching, research, and extension staffs of the University. Members of the various departments of the State of West Virginia working under University control also are eligible. The purpose of the club is to promote friendliness, fellowship, and good will among its members and to encourage closer ties between faculty members of the colleges, schools, and departments. A program of social activities is conducted throughout the fall and spring semesters. The Faculty Club has headquarters at 511 North High Street.

STUDENT AFFAIRS

DIRECTOR OF STUDENT AFFAIRS

Student activities and welfare are under the administration of the Director of Student Affairs. His office is on the second floor of the Administration Building and has assistant's office is on the third floor.

DEAN OF WOMEN

All interests of women students are in the hands of the Dean of Women. Her office and that of her assistant are on the main floor of Elizabeth Moore Hall.

Standards of Student Conduct

A student is expected to show both within and without the University unfailing respect for order, morality, personal honor, and the rights of others. This rule is construed as applicable at all times, in all places, to all students of the University.

Director of Student Affairs is well known by most students on campus. He co-ordinates student activities and also advises students on all types of problems. His office is on the second floor of the Administration Building.

A student may at any time be removed from the University if his presence is not conducive to the best interests of the University.

The University maintains very stringent standards of honesty in academic work. Both students and faculty are committed to the discouragement of cheating in all forms. Uniform procedures for hearing, investigating, handling, and disposing of cheating cases are established throughout the University (See page 40).

All matters of discipline are under the jurisdiction of the Director of Student Affairs and the Committee on Discipline. No student may be expelled without approval of the President of the University.

Student Marriages

If any student under the age of twenty-one years, who has not been previously married, intends to marry within the school year, he or she must obtain the consent of the parents* or guardian before such marriage shall be solemnized, in accordance with the provisions of Section 8, Chapter 48, revised Code of West Virginia, 1931.

In order to insure obedience with both the letter and the spirit of this statute and the policy of the University such student, no less than one week before said marriage, must show satisfactory evidence to the Director of Student Affairs that the consent of the parents or guardian as required by the statute has been obtained.

In the event that such student does not make such showing to the Director of Student Affairs, regardless of where the marriage ceremony is performed, he or she may be suspended, and may only be reinstated upon showing satisfactory reason to the Council of Administration why he or she failed to comply with this regulation.

Where both parties to the marriage are students and one has not complied with this rule, both may be suspended.

Return of Books to Library

Students must present a signed statement from the Librarian that they have returned all books and paid all library fines before withdrawing from the University or before graduation.

Campus Parking Regulations

Students are required to observe all rules and regulations of the University concerning automobile parking. Full information is available in *Notes for New Mountaineers* or from the Information Desk located in the Lobby of the Administration Building.

Student Identification Card

An identification card is issued to each full-time student. This card entitles the owner to admission to certain University athletic events, various activities of student government, Health Service, and Mountainlair. Confiscation will result from misuse. The University reserves the right to refuse reissuance of an identification card.

Living Accommodations

The University maintains five residence halls, two for men and three for women. For information as to accommodations and rates, address the Director of Residence Halls.

The following rules are in effect:

No student will be permitted to live in other quarters until after the residence halls are fully occupied. All women students must live either in residence halls, sorority houses, or in homes approved by the Dean of Women.

In assignment of rooms in these buildings all freshmen shall be required to take rooms therein, no freshman being allowed to live outside the residence halls if there is room in them. In enforcing this rule the following exceptions shall be made:

*Or of the parent living, or, if the parents be living separate and apart, of the one accorded the custody of such person.

A pleasant atmosphere adds to the enjoyment of meals in the dining rooms of the residence halls for University women. Dietitians supervise the preparation of all food.

(1) When the parents or legal guardians of students reside in Morgantown or within commuting distance of the University, these rules shall not apply.

(2) When the home of the student is within such distance that it is entirely practicable for him to live in his home and reach the University by car or otherwise for all his classes, these rules shall not apply.

A student who does not claim exemption for the fall semester to live with parents or guardian cannot claim exemption for the second semester unless the parents in the meantime have moved to Morgantown.

(3) When students above the rank of freshman reside in approved sorority or fraternity houses under the supervision of the Director of Student Affairs and the Dean of Women, these rules shall not apply.

(4) When conditions of employment (such as firemen in various buildings and homes, employment on dairy and experimental farms, etc.) require residence on the premises, these rules shall not apply. Students so employed should not request reservation for resident space. All women students must receive approval of the Dean of Women before arranging to work for room and board.

When space is needed for underclass women, no senior sorority woman will be permitted to live in Woman's Hall if there is room for her in her sorority house.

Because of the shortage of residence space, rooms are assigned only to students whose homes are in West Virginia. Assignments are for the entire academic year. Students cannot be released at the end of the first semester to live elsewhere.

More detailed information may be found in the *Residence Halls Bulletin*, a copy of which will be furnished by the Director of Residence Halls.

Board and lodging for women graduate students and for men is available in private dwellings. Men may secure information concerning living accommodations in town by visiting the Information Desk, Administration Building (first floor).

A view of the swimming pool and main lodge of the West Virginia Fine Arts Camp at Clifftop—site of the music, speech, and journalism Summer Camp programs.

Women may secure information concerning approved living accommodations in town by visiting the Dean of Women, Elizabeth Moore Hall. Arrangements for renting a room must be made in person with the landlady or landlord.

Student Government

University student government was reorganized in 1952 under a new constitution providing for three separate departments of government activity: the Student Legislature, the Student Executive Council, and the Student Court.

The Legislature, composed of elected representatives from all colleges and schools, determines policy and exercises control over all student activities proposed by the Executive Council, the administrative body which includes the president and vice-president of the student body, and the president and vice-president of each class. The Court, composed of seven students, handles constitutional revisions and controversial issues of the Legislature and Executive Council.

Student government sponsors many educational and entertaining activities, and coordinates the work of its committee system and of various campus organizations. Besides providing valuable experience in democratic self-government, student government represents the student body with the faculty, administration, and off-campus groups.

Associated Women Students

All women students are members of Associated Women Students. The purposes of this association are: (1) to regulate all matters pertaining to the student life of its members; (2) to further in every way a spirit of friendliness and unity among the women of the University; (3) to increase their sense of responsibility; and (4) to be a medium for maintaining high scholastic and social standards.

Responsibility for directing the work of the Association rests with the Executive Council, composed of the following members: a president, two vice-presidents, a secretary, a treasurer, and a representative from each class. The officers are elected annually. To be eligible for membership on the Executive Council, a woman must have no less than a "C" average in all her work.

In 1921, the Association was admitted to active membership in the intercollegiate Association of Student Government for Women Students.

Eligibility for Activities

To be eligible to represent the University in public appearances, a student must be enrolled in the University and must meet the eligibility requirements of the department or school in which the activity originates. The records of those students whose status is questionable should be checked at the Registrar's Office before participation is permitted. This checking should be done by the department or school in question.

To hold an elective or appointive office in a duly recognized student organization, a student must be enrolled in the University for at least 12 semester hours; and if in other than his or her first semester in residence, must have maintained a minimum cumulative average of "C," as reported by the Registrar's Office, at the time of election or appointment. After completion of his or her first semester in the University no person shall be pledged to either a social fraternity or sorority unless he or she has attained a cumulative average of "C" as reported by the Registrar's Office at the time of pledging.

STUDENT ORGANIZATIONS

Following is a brief listing of all recognized student organizations. Specific details concerning description and membership requirements can be found in *Notes for New Mountaineers* and where applicable in the *Announcements* of the school or college concerned.

ACADEMIC AND SERVICE HONOR SOCIETIES

Alpha Epsilon Delta (Pre-medical)
Alpha Pi Mu (Industrial Engineering)
Alpha Psi Omega (Dramatics)
Alpha Zeta (Agriculture)
Arnold Air Society (Air Force R.O.T.C.)
Beta Gamma Sigma (Business Adm.)
Chi Epsilon (Civil Enginering)
Chimes (Junior women)
Eta Kappa Nu (Electrical Engineering)
Helvetia (Sophomore men)
Kappa Delta Pi (Education)
Kappa Tau Alpha (Journalism)
Li-Toon-Awa (Sophomore women)
Mortar Board (Highest women's honorary)
Mountain (Highest Men's Honorary)
Omicron Nu (Home Economics)
Order of the Coif (Law)
Pershing Rifles (Military)
Phi Beta Kappa (Arts and Sciences)
Phi Epsilon Phi (Botany)
Phi Lambda Upsilon (Chemistry)
Pi Delta Phi (French)
Pi Tau Sigma (Mechanical Engineering)
Psi Chi (Psychology)
Rho Chi (Pharmaceutics)
Scabbard and Blade (Army R.O.T.C.)
Sigma Delta Pi (Spanish)
Sigma Gamma Epsilon (Earth Sciences)
Sigma Gamma Tau (Aeronautical Eng'g.)
Sigma Pi Sigma (Physics)
Sigma Xi (Scientific Research)
Sphinx (Senior men)
Spokes (Women's service group)
Tau Beta Pi (Engineering)
Xi Sigma Pi (Forestry)

Professional Honorary Societies

Alpha Delta Theta (Medical Technology)
Alpha Epsilon Delta (Pre-Medical)
Alpha Kappa Psi (Economics)
Alpha Tau Alpha (Agricultural Educ.)
Beta Alpha Psi (Accounting)
Delta Sigma Rho (Forensics)
Forestry Club
Kappa Psi (Pharmacy)
Lambda Kappa Sigma (Pharmacy women)
Mu Phi Epsilon (Music women)
Omega Chi Epsilon (Chemical Engineering)
Phi Alpha Delta (Law)
Phi Alpha Theta (History)
Phi Beta Pi (Medicine)
Phi Chi (Medicine)
Phi Delta Phi (Law)
Phi Mu Alpha (Music men)
Phi Upsilon Omicron (Home Economics)
Pi Sigma Alpha (Political Science)
Sigma Delta Chi (Journalism men)
Theta Sigma Phi (Journalism women)

NATIONAL AND LOCAL STUDENT GROUPS

The Art Society
Advanced Cadet Class
Agriclub
Alpha Phi Omega
American Chemical Society
American Institute of Chemical Engineers
American Institute of Electrical Engineers and Institute of Radio Engineers, joint branch
American Institute of Industrial Engineers
American Institute of Mining, Metallurgical, and Petroleum Engineers
American Marketing Club
American Pharmaceutical Association
American Society of Agricultural Engineers
American Society of Civil Engineers
American Society of Mechanical Engineers
Associated Women Students
Block and Bridle Club
Campus Ecumenical Council
Cavaliers
Cavalettes
Collegiate F.F.A. Chapter
Cosmopolitan Club
Dairy Science Club
Diogenes Club
Dolphin
Engineering Council
Fi Batar Cappar
Home Economics Club
Il Circolo Italiano
Institute of Aerospace Sciences
Interfraternity Chaplain's Council
Interfraternity Council
Mathematics Club
Men's Glee Club
Mountaineer Party
Mountaineer Poultry Club
Mountaineer Rifle Club
Music Educators' National Conference
Orchesis
Panhellenic Council
Philosophical Society
Physical Education Majors' Club (women)
Press Club
Recreation Club
Russian Circle Club
Society for the Advancement of Management
Spokes
Student National Education Association
Student Party
University Bands
University Choir
University Choral Union
University Debate Team
University Four-H Club
University Outing Club
University Players
University Symphony Orchestra
Veterans' Club
W.V.U. Chess Club
W.V.U. Amateur Radio Club
W.V.U. Society of Mining Engineers
Women's Glee Club
Young Democrats
Y.M.C.A.
Young Republicans
Y.W.C.A.

SOCIAL ORGANIZATIONS

Fraternities

Alpha Gamma Rho
Alpha Phi Delta
Alpha Sigma Phi
Beta Theta Pi
Delta Tau Delta
Kappa Alpha
Kappa Sigma
Lambda Chi Alpha
Phi Delta Theta
Phi Kappa Psi
Phi Kappa Sigma
Phi Sigma Delta
Phi Sigma Kappa
Pi Kappa Alpha
Sigma Chi
Sigma Nu
Sigma Phi Epsilon
Tau Kappa Epsilon
Theta Chi

Sororities

Alpha Delta Pi
Alpha Phi
Alpha Xi Delta
Chi Omega
Delta Delta Delta
Delta Gamma
Gamma Phi Beta
Kappa Delta
Kappa Kappa Gamma
Pi Beta Phi

FRATERNITY ADVISERS

Alpha Gamma Rho, Dr. James A. Welch and Dr. I. D. Porterfield; Alpha Phi Delta, Frank Scalise; Alpha Sigma Phi, Francis P. Fisher; Beta Theta Pi, Edwin Crooks; Delta Tau Delta, Sam Boyd, Jr.; Kappa Alpha, Dr. Dana Wells; Kappa Sigma, Dr. H. H. Boyers; Lambda Chi Alpha, Robert Summers; Phi Delta Theta, Paul Kidd; Phi Kappa Psi, John Buchanan; Phi Kappa Sigma, Ralph White; Phi Sigma Delta, Dr. Victor Lemke; Phi Sigma Kappa, Art Morris; Pi Kappa Alpha, Dr. Jesse F. Clovis; Sigma Chi, Stanley R. Cox, Jr.; Sigma Nu, Charles Armistead; Sigma Phi Epsilon, Stan Romanoski; Tau Kappa Epsilon, Carl Dennler; Theta Chi, Dr. K. C. Westover.

SORORITY SUPERVISION

Supervision of all sororities is vested in the Dean of Women's office.

RELIGIOUS FOUNDATIONS AND ASSOCIATIONS

Various State and National church boards have established foundations at the University for the religious education and nurture of students. The churches of Morgantown extend a warm welcome to students of all faiths. The physical plant and equipment of each church is available for social, educational, and recreational activities of students.

Baptist

The Baptist Student Movement at the University is located in the Student Center of the First Baptist Church, 432 High Street. It is sponsored by the American Baptist Convention, and the local church. The B.S.M. includes the Baptist Student Fellowship and the Married Student Fellowship. Their programs encompass church school classes, worship services, evening fellowships, and many other activities. The responsibility for these programs lie with the students and the pastor to students. Rev. Nelson Griffiths.

Catholic

Newman Hall, 1481 University Avenue, is the social and religious center established by the West Virginia Diocese of the Roman Catholic Church for students of that and other faiths. Newman Hall is a beautiful building of English collegiate architecture immediately adjacent to the campus. It includes a chapel, dining room, lounge, game room, and library. The Paulist fathers are the resident chaplains.

Christian

The *Disciple Student Foundation* provides a program for Christian Church students attending the University. The Foundation is sponsored by the Department of Religious Education of the United Christian Missionary Society at Indianapolis, Ind., the Christian Churches of West Virginia and the First Christian Church at Morgantown. These three agencies function through a Student Work Advisory Committee. The First Christian Church is the center for Foundation activities and is located at Grand Street and Cobun Avenue. The Rev. Lawrence Bennett is in charge.

Episcopal

Trinity Church, at Spruce and Willey Streets, is the center for student work sponsored by the Diocese of West Virginia of the Protestant Episcopal Church. This work is under the direction of the rector, the Rev. Mr. Donald Rogan, and assistant rector, the Rev. Frederick H. Shriver, Jr. The program includes student worship services and meetings of the Canterbury Club, a chapter of the National Association of Canterbury Clubs, for discussion and fellowship. Canterbury Club meets in Strider Hall, located on the ground floor of Trinity Church.

Greek Orthodox

The *Greek Orthodox Youth of America* conducts student activities at 447 Spruce Street, under the direction of the Father Nicholas Sitaras.

Jewish

The *Hillel Foundation* at the University, 1420 University Avenue, represents the combined efforts of the West Virginia B'nai B'rith Lodges and of the National B'nai B'rith Hillel Foundation to bring the University's students together in religious, cultural, and social activities. Prominent lecturers and speakers are featured at regular intervals by the Foundation for the members of the group and for the general student body. Rabbi Bernard A. Silverblatt serves as director of the Foundation.

Lutheran

St. Paul's Lutheran Church is the center of Lutheran student activities sponsored by the Student Service Commission of the National Lutheran Council, the Synod of West Virginia, and St. Paul's Lutheran Church. The work is under the direction of the Rev. Richard Rife, local pastor. The program includes regular services of the church and activities of the Lutheran Student Association.

Methodist

Wesley Foundation at West Virginia University is housed in Wesley Methodist Church at 503 High Street and provides a worship and activities center for Methodist students in the University. Facilities are provided for worship, religious education, and fellowship. The students plan and execute the program of education, worship, fellowship, community service, settlement house missions, and other activities. Kappa Phi, Methodist women's club, and Sigma Theta Epsilon, Methodist men's fraternity, are sponsored by the Foundation. David Riffe is the Minister to Students.

Presbyterian

The *Westminster Foundation* of West Virginia represents the cooperative efforts of the Boards of Christian Education and National Missions of the Presbyterian Church, U.S.A., the Synod of West Virginia of the Presbyterian Church, U. S., and the Presbytery of Winchester, to make the Christian religion a vital factor in the experiences of students and in the relationships which these students sustain while in the University; and also, though guided Christian activities in the mine-camp communities surrounding Morgantown, to train among educated men and women future Christian statesmen. The Rev. Robert Henry, 331 Forest Avenue, is the student pastor and director.

United Brethren

The Student Youth Fellowship of the *Evangelical United Brethren Church* conducts student activities at the Church on Burroughs Street in The Flatts. The Rev. Lejeune Lewis is in charge of a weekly Youth Fellowship hour.

Other Churches

Other churches, while not having special buildings or workers for University students, make definite contributions in ministering to the religious and social needs of students who belong to their particular faiths. College students are welcome in all our churches regardless of their church afiliations. A complete list of churches and services will be found in *Notes for New Mountaineers.*

Y.M.C.A. and Y.W.C.A.

The *Young Men's Christian Association* of West Virginia University is a nonsectarian fellowship of students and faculty united in the desire to encourage personal and social development in the light of religious principles. The *Young Women's Christian Association* is a nonsectarian fellowship of women of the University organized for the purpose of promoting and directing widely varied activities through a religious motive. Both Associations are affiliated with their national and international bodies and with the World Student Christian Federation.

Student officers, student cabinets, boards composed of students, faculty, and townspeople, and an executive secretary direct the activities. The various committees, interest groups, and commissions provide not only their immediate ends, but also opportunity for fellowship and leadership training. Both offices are on the second floor of Elizabeth Moore Hall.

CULTURAL ACTIVITIES

The University, through the Committee on Convocations and Public Exercises, provides appropriate and desirable programs for students. The convocations form the basis of the cultural program, but there are others sponsored by various divisions of the University and community.

Convocations consist of addresses by distinguished speakers, and musical and other entertainment features of special merit.

During the year students have an opportunity to attend their own legitimate theatre in which plays are presented by the Speech Department. University Radio Theatre also is an activity of the Speech Department.

The University Symphony Orchestra concerts, individual recitals, and glee club concerts are sponsored by the School of Music.

The Community Concert Series is another fine opportunity afforded to students.

A broad student fellowship program is available at the many churches in the community and a special week is set aside annually as Life Week to emphasize the religious phase of student life.

Greater West Virginia University Weekend makes a number of cultural activities available to students and their visiting parents. A modern dance recital, music recitals, religious services, and educational scientific exhibits are of the highest value.

SOCIAL ACTIVITIES

Student social life in the University is a carefully planned and supervised part of a student's life on campus. It is guided in such a manner as to offer a wholesome type of pleasure without curbing the institution's main purpose—education of the student.

Social life is under the supervision of the University Social Committee. The committee has supervision of every social function given by the University or by an organization within it, including fraternities, sororities, and other student societies.

The social program is highlighted during the year by Homecoming Weekend, Mountaineer Weekend, Greater West Virginia Weekend, and Graduation Week. The Homecoming Parade is an annual tradition. The Homecoming Dance, of course, is the climax of the celebration. Mountaineer shenanigans on a special fall weekend, set aside by the students, is the most newly-established annual affair. Mountaineer garb, in its truest fashion, prevails at all activities for the two-day program, including classes on Saturday morning. Mountaineer music, hayseed hoedowns, and other attractions provide everyone with a gala time.

Other major dances include the Military Ball, Engineers' Ball, and Golddiggers' Ball.

Aside from these major social attractions, there are many others scheduled for weekends throughout the year. A number of these activities are sponsored by individual organizations; some have a limited attendance and others are all-campus affairs

PROCEDURAL RULES FOR HANDLING CHEATING CASES

General Statement of Policy

Cheating is condemed at all levels and in all areas of life. Like a crippling malady, it leaves its marks subjectively. Cheating indicates a weakness and inability to meet and face the issues and problems of life. It creates an atmosphere of mistrust, disrespect and insecurity. The effects and influence of cheating will necessarily be reflected in commerce and government and in all of the professions and callings, as well as in the classroom and in the home. Students of the University should act to discourage and eliminate cheating of every kind and character for the moral and mental well-being of themselves and their fellow men. Likewise, it is incumbent on the teaching faculty to remove and eliminate every situation which provides avenues and opportunities for cheating, thereby contributing to the inculcation of the principles of honesty, integrity, self-reliance and self-respect of the students. It is expected that University officials will have little occasion to place in operation the established procedures for handling cheating cases. Through these procedures and by means of a continued awareness, on the part of both the faculty and the students, of the intellectually and morally weakening effects of cheating, a healthy strengthening of the moral fiber of the University community may be envisioned and accomplished.

Definition of Cheating

Cheating may be defined as including:

1. Obtaining help from another student during examination.
2. Knowingly giving help to another student during examination.
3. The use of notes, books, or any other unauthorized sources of information during examination.
4. Obtaining, without authorization, an examination or any parts thereof prior to the taking of the examination.
5. Submitting a report, notebook, speech, outline, theme or other problem for credit that has been knowingly obtained or copied in whole or in part from another individual's academic composition, compilation or other product.
6. Submitting or participating in the submission of a report or examination paper falsely represented as being the result of the original efforts of the submitting student.
7. Altering the record of any grade in any gradebook, office or other record.
8. Any other type of misconduct, offense, or manifestation of dishonesty or unfairness in or relating to the academic work.

Procedures for Hearing, Investigating, Handling Cases

The deans of the several colleges and schools shall have the authority and shall be responsible for the handling of cheating cases arising or occuring within their respective colleges and schools.

Each member of the teaching faculty and all other University employees, including but not limited to assistants, proctors, office personnel, janitors and night watchmen, shall promptly report, via the department head or immediate superior, if any, each known case of cheating, as hereinbefore defined, to the dean of the college or school therewith immediately concerned.

Each case of cheating shall be handled with dispatch, and the dean shall promptly report thereon in writing to the President and shall at the same time place a copy of such report in the permanent record of the student concerned and forward another copy thereof to the Director of Student Affairs for his permanent records. In all cheating cases involving women students, an additional copy of such report shall be forwarded to the Dean of Women. The report shall include a brief statement covering the facts and circumstances of the case and the discipline applied or recommended.

In cases wherein cheating occurs in a college or school other than that in which the student is registered, the minimum penalty, as prescribed in part D thereof, shall be applied by the dean of the college or school in which the cheating occurred. In

handling such cases the dean shall follow the procedure in paragraph 3 hereof and then immediately refer the case, by transmittal of a copy of the report thereon as prescribed in paragraph 3 hereof, to the dean of the college or school in which the student involved is registered. The purpose of this copy of the report is for information and for imposition or recommendation of such further discipline or penalty as may be warranted. Upon completion of his review of and action on the case, the dean of the college or school in which the student is registered shall thereupon compose his independent written report on the case and transmit same to the President and otherwise distribute copies thereof as provided in paragraph 3 hereof.

The deans and their respective teaching faculties shall take remedial and preventive steps to remove every opportunity for and situation conducive to cheating. Particular attention shall be given to the maintenance of a high level of proctoring in those colleges, schools and departments wherein proctoring is employed and to security against student access to or knowledge of examination and test materials prior to the time of the intended use thereof for student examination and testing purposes. The deans shall exercise their independent discretion as to methods and means of accomplishing these ends and may employ therefor faculty meetings, written instructions or other effective devices and measures.

Penalties for Cheating

The *minimum* penalty for all cases of cheating shall be dismissed from the course and the establishment of a grade of "Failure" in the course, as of the date of cheating. *unless in the opinion of the dean there are extenuating circumstances which might indicate the advisability of a lesser penalty.*

For a second or subsequent cheating offense, in addition to failure in the course, suspension or expulsion of the student shall be recommended by the dean for the President's action The office of the Director of Student Affairs shall maintain its records of reports in cheating cases so as to detect and ascertain promptly and accurately the occurrence of second or subsequent cheating offenses and, upon inquiry by the dean, shall promptly advise whether the student has been guilty of any prior cheating offense or offenses

Suspension or expulsion of a student guilty of cheating may, in first offense cases, be recommended by the dean to the President if the facts and circumstances of the case so warrant or the rules, regulations or policy of the college or school concerned so require

In cheating cases involving criminal offenses, such as theft of examination or test materials, alteration of records, breaking or entering buildings, offices, desks, safes or filing cabinets, damage to public property and other like or similar misconduct, the academic penalties and discipline as herein prescribed shall be applied and, in addition thereto, the dean of the college or school concerned shall, with the approval of the President, cause the facts of each such case to be presented to the Prosecuting Attorney of Monongalia County, West Virginia, for his further investigation and for prosecution by injunction or otherwise as may be warranted. Upon the issuance of a warrant for or the return of an indictment against a student on account of any such offense, the President shall suspend such student from the University pending final prosecution thereon. If the student be acquitted of the offense, his suspension may be vacated, but if convicted of the offense, he shall be expelled from the University.

A student may appeal from the decision or action of a dean in a cheating case to the President for review and reconsideration and the President may thereupon affirm or reverse, in whole or in part, the decision or action of the dean.

In his action on any cheating case, whether on appeal by a student or on recommendation or reference by a dean, the President may consider the case record before him, may further investigate or cause to be investigated the facts and circumstances of the case, and may act personally thereon and dispose thereof, or he may, in his discretion, refer the case to another appropriate University office, committee or agency for review, investigation, consideration and recommendation prior to his final action thereon and disposition thereof.

It is recommended that, in all phases of cheating cases, care and caution will be observed so as to avoid any accusation or charge of cheating or related impropriety which may be without foundation. A false accusation may have serious implications and result in reflection on or harm to an innocent and unoffending student and discredit to the faculty.

SCHOLARSHIPS, PRIZES, ASSISTANTSHIPS, FELLOWSHIPS, AND LOAN FUNDS

Many individuals and organizations who are friends and benefactors of the University and its students have established scholarships for deserving students. Additional information concerning these scholarships may be obtained from the Scholarship Coordinator.

FRESHMAN SCHOLARSHIPS

For Students in the College of Agriculture, Forestry, and Home Economics

Sears Roebuck Foundation Agricultural Scholarships. A grant of $2,250 from the Sears Roebuck Foundation of Chicago makes possible the awarding of 10 scholarships each year to deserving men enrolling as freshmen in agriculture or forestry, and to one sophomore in these fields. The freshman grants are of $200 each, the sophomore grant of $250.

Southern States Cooperative Scholarship. Established in 1957, this award is made annually to a freshman in agriculture or forestry, the son of a Southern States Cooperative member, a resident of West Virginia, who has two or more years' experience in 4-H or F.F.A. work. The grant is in the amount of $1,200, payable at the rate of $300 yearly.

Standard Oil Company of New Jersey Scholarship. In 1947 the Standard Oil Company of New Jersey provided a four-year scholarship of $200 per year to a man in 4-H Club work in West Virginia. Selection is on the basis of need and ability.

Kroger Company Scholarships. The Kroger Company will give two scholarships of $250 each to students in agriculture or forestry. Awards are made on the basis of scholarship, and leadership in school, church, F.F.A., F.H.A., 4-H Club, and other youth activities.

Danforth Foundation Agricultural Leadership Training Scholarship. A $50 scholarship at the American Youth Foundation Leadership Training Camp, Stony Creek, Michigan. This award is made to an outstanding agricultural freshman. The award is made jointly by the Danforth Foundation and Ralston Purina Company, St. Louis, Mo. Selection of recipient is made by the Student Aid and Grants Committee of the College of Agriculture, Forestry, and Home Economics.

Gilbert Lumber Company Scholarship in Forestry. Established in the fall of 1956, this scholarship is for the study of forestry as preparation for work with the lumber industry, and carries an annual stipend of $900 for the school year, subject to renewal for a total of four years on the basis of a satisfactory school record for the preceding years, and continued attendance by the recipient. Eligibility is restricted to residents of Mingo, Wayne, Lincoln, Logan, Boone, McDowell, Wyoming, Raleigh, Fayette, Mercer, and Summers counties. Applicants are required to be in the upper 10 per cent of their high school graduating classes, and must accept employment in the lumber industry during two summer vacations while studying at the University.

Rachel Colwell Scholarship. This tuition scholarship was established and is supported by Phi Upsilon Omicron, professional home economics organization. Alumnae and the active chapter cooperate in providing a tuition scholarship to an entering freshman woman who proposes to major in home economics. Selection is on the candidate's high school record, including experience in such organizations as 4-H and F.H.A. It is in the amount of $100.

Kroger Company Scholarships. The Kroger Company will give two scholarships of $250 each to students in home economics. Awards will be made on the basis of scholarship, and leadership in school, church, F.F.A., F.H.A., 4-H Club, and other youth activities.

Sears Roebuck Home Economics Scholarships. A grant of $600 to the Division of Home Economics from the Sears Roebuck Foundation of Chicago makes possible

the awarding of annual scholarships to three deserving women enrolling as freshmen in home economics. Individual scholarships amount to $200 per year.

West Virginia Home Demonstration Council Scholarships. These scholarships of $200 are available to three freshman women in the Division of Home Economics. A 2.0 average must be maintained for the second semester in order to retain the scholarship. It is hoped that a good proportion of the recipients will eventually give service to West Virginia by becoming 4-H Club agents or home demonstration agents.

Continental Can Company, Inc., Forestry Scholarship. This scholarship, consisting of $1,000 for each of four years, is awarded to a freshman man enrolled in Forestry. The recipient must be a resident of a county in Virginia in which the Continental Can Company owns land. Selection of the recipient is made by the Company.

West Virginia Dairy Technology Society Scholarship. The West Virginia Dairy Technology Sorority has established a Scholarship of $400 to be awarded to an entering freshman who intends to major in dairy manufacturing. The recipient is selected by the Committee on Student Aid and Grants of the College of Agriculture, Forestry, and Home Economics on the basis of high school achievement, aptitude, and need.

Harrison County Farm Bureau Agricultural Scholarship. Established in the fall of 1959. To be eligible as a recipient, the applicant must be a male student from Harrison County who has completed high school with a creditable record and who has the additional qualifications of high character, abiding interest in agriculture and financial need. Previous membership in 4-H and FFA, while desirable, are not required, nor is a farm background. This scholarship has an annual stipend of $100.

West Virginia Garden Club's Scholarship in Forestry. Established in 1959 by fifteen garden clubs throughout West Virginia, this scholarship is composed of $200 to be used by a student or students attending the 1961 Forestry Summer Camp and is to be presented by Dr. W. C. Percival.

For Students in the College of Arts and Sciences

Science Talent Search Scholarship. The Board of Governors of the University and the West Virginia Academy of Science established in 1949 this scholarship which entitles a high school senior to the remission of all fees except those payable to State special funds and those chargeable to special services, as well as a cash award of an amount not less than the total remitted by the University. The recipient is selected by the Academy of Science in accordance with its rules.

Columbia Southern Chemical Corporation Scholarship. This award is in the amount of $4,000, and was established for graduates of Magnolia High School (New Martinsville), or for employees of the Columbia Southern Chemical Corporation plant who graduated from any high school. The recipient must be a candidate for work in chemistry, chemical engineering, mechanical engineering, civil engineering or electrical engineering. The recipient will be selected by the corporation.

Sigma Pi Sigma Scholarship in Physics. Established in 1956 by the local chapter of Sigma Pi Sigma, national physics honorary, this scholarship is awarded annually to a West Virginia high school senior chosen on the basis of tests, academic record, and on the recommendation of his high school principal and science teachers. In order to obtain the scholarship, which pays $150 per year, the recipient must enroll at the University with the intention of majoring in physics.

For Students in the School of Dentistry

General Daniel Morgan Scholarship: In the fall of 1959 on behalf of the Veterans of Foreign Wars of the United States, General Daniel Morgan Post No. 548, Morgantown, established a scholarship for an entering freshman. This scholarship will be given to a resident of Monongalia County who is a student in either the School of Dentistry or the School of Medicine. It has an annual stipend of $400. The student will be selected by the V.F.W. Scholarship Committee on the basis of eligibility and need. Dr. Donald E. Hayhurst is chairman of the committee.

For Students in the College of Education

Board of Governors Scholarships in Education. In 1954 the Board of Governors established five annual scholarships in education. Each includes four academic years and entitles the recipient to the remission of all fees except those payable to State special funds and those chargeable to special services. Scholarships are awarded to graduating high school seniors who have a desire to become good public school teachers on the basis of scholastic ability and attainment, qualities of good citizenship, evidence of leadership and moral force, and extra-curricular activities. Scholarship holders will register during their first two years in the pre-education curriculum of the College of Arts and Sciences.

For Students in the College of Engineering

Armco Foundation Scholarship in Civil Engineering. This award of $650 yearly will be continued for a total of four years provided the recipient maintains satisfactory standards.

Associated General Contractors of West Virginia Scholarship. Established in 1956, this scholarship has a stipend of $300 for a freshman in the College of Engineering. Scholars are chosen from applicants on the basis of scholarship, with an aptitude for college and engineering study, and interest in engineering and construction.

Columbia Southern Chemical Corporation Scholarship. This award is in the amount of $4,000, and was established for graduates of Magnolia High School (New Martinsville), or for employees of the Columbia Southern Chemical Corporation plant who graduated from any high school. The recipient must be a candidate for work in chemistry, chemical engineering, mechanical engineering, civil engineering or electrical engineering. The recipient will be selected by the corporation.

International Nickel Company Scholarship. Established in 1956, this award is for a high school graduate interested in engineering (with a preference for the mining, geological or metallurgical fields). It is for four years, and consists of tuition, fees, and a cash sum of $300 annually for books and a portion of the living expenses.

Union Carbide Engineering Scholarship. This scholarship is to be awarded to an entering freshman. It is for four years at $500 per year. Preference will be given to students entering the mechanical, chemical, or metallurgical engineering field.

Pocahontas Fuel Company, Incorporated, Scholarships. In 1956 the Pocahontas Fuel Company, Incorporated, established two undergraduate scholarships, one that started in 1956 and the other that began in 1959. The annual amount of each—$700 for West Virginia students or $1,000 for out-of-state students—is renewable from year to year on the basis of satisfactory scholastic and personal records. These scholarships are for the purpose of studying coal engineering in the College of Engineering.

For Students in the School of Journalism

All scholarships in the School of Journalism are given on the basis of ability, scholastic achievement, promise for a successful career in one of the many fields of communications media, and need of financial assistance.

Lewis Baker Scholarships. Two scholarships of $100 each were established in 1945 by the late Mrs. Guy Despard Goff in memory of her father, Lewis Baker (1832-99), who founded the Wheeling Register in 1863. Between 1955 and 1957 these two scholarships were maintained jointly by the late Mrs. Ruth B. Thomas, also a daughter of Lewis Baker, and her son, L. N. Thomas. Following the death of Mrs. Thomas, the two scholarships have been maintained by Mr. Thomas, president of the Carbon Fuel Company, Charleston.

Ogden Scholarships. In 1945 the News Publishing Company, Wheeling, established two $200 scholarships in memory of the late H. C. Ogden, West Virginia publisher.

Charleston Daily Mail-Gazette Scholarships. Two Daily Mail Scholarships of $100 each were established in 1945 by its editor, the late Walter E. Clark, and its publisher, Fred M. Staunton. From 1945 to 1957 the Mail provided either one or two

scholarships each year. In 1958 the scholarships were given by the Newspaper Agency Corporation as agent for both the Charleston Daily Mail and Charleston Gazette. Awards of $100 each will be granted to two students receiving these scholarships.

For Students in the School of Medicine

General Daniel Morgan Scholarship. In the fall of 1951, on behalf of the Veterans of Foreign Wars of the United States, the General Daniel Morgan Post No. 548, Morgantown, established a scholarship for an entering freshman. The scholarship will be given to a resident of Monongalia County, who is a student in either the School of Medicine or the School of Dentistry. It has an annual stipend of $400. The student will be selected by the V.F.W. Scholarship Committee on the basis of eligibility and need. Dr. Donald E. Hayhurst is the chairman of this committee.

Scholarship Fund in Honor of Dr. Thomas L. Harris. Established by the family of Anna M. Broida of Parkersburg, West Virginia, this annual scholarship of $400 will be awarded each year to a worthy student in the School of Medicine. A preference will be given to a student who is specializing in surgery. This scholarship may be held for more than one year depending upon the committee's decision.

The West Virginia Medical Association Scholarship in Medicine. Established by the West Virginia State Medical Association in 1958. The recipient receives a stipend of $1,000 a year for four years of medical training. Recipients are selected by the Committee of the Student Medical Association on recommendation by the Committee on Admissions of the School of Medicine. The recipient must agree to practice medicine in a rural West Virginia community for four years after his graduation with a M.D. degree.

For Students in the School of Mines

The Johnstown Coal and Coke Company Scholarship. The Johnstown Coal and Coke Company, of Johnstown, Pennsylvania, offers an annual freshman scholarship in Mining Engineering for which graduates from high schools in the vicinity of the company's West Virginia and Pennsylvania operations are eligible to compete. The scholarship provides payment of $750 per year, renewable annually for four years on the basis of satisfactory academic performance. Awards are made by the sponsoring company, and participating high schools in West Virginia are Cowen, Crichton, Nicholas County, Richwood and Webster Springs.

Pocahontas Fuel Company, Incorporated, Scholarships. In 1956 the Pocahontas Fuel Company, Incorporated, established two undergraduate scholarships, one that started in 1956 and the other that began in 1959. The annual amount of each—$700 for West Virginia students or $1,000 for out-of-state students—is renewable from year to year on the basis of satisfactory scholastic and personal records. These scholarships are for the purpose of studying coal engineering in the School of Mines.

Traux-Traer Coal Company Scholarships. In September 1956, the Truax-Traer Coal Company established a four-year scholarship program in Mining Engineering providing two freshman scholarships each year. Scholarships carry an annual payment of $600 plus summer employment and are renewable annually for four years on the basis of satisfactory academic records. Contact the Dean of the School of Mines for further information.

The Semet-Solvay Scholarships. The Semet-Solvay Division, Allied Chemical Corporation, Bluefield, West Virginia, established in March, 1952, the Semet-Solvay Scholarship in Mining Engineering. This scholarship is awarded to an outstanding high school graduate who is a resident of West Virginia and who will pursue a course in coal mining engineering and will accept employment in the coal mining industry upon graduation. This scholarship pays $600 per year, and is renewable from year to year upon the basis of satisfactory academic work during the previous year. Inquiries should be sent to the Dean of the School of Mines.

Coal Division, American Institute of Mining, Metallurgical, and Petroleum Engineers Scholarship. This scholarship was established for outstanding students in the

School of Mines. The scholarship is valued at $400 per year, and may be awarded for a period of four years. Awards are made by the Scholarship Committee of the American Institute of Mining, Metallurgical, and Petroleum Engineers. Inquiries should be addressed to the Dean of the School of Mines.

North American Coal Corporation Scholarship. This grant-in-aid program was established by the Cleveland firm of the same name, and is available to freshmen enrolling in the School of Mines. There is no fixed number of awards, and recipients are selected by the corporation. Grants range up to $900 yearly, and are renewable from year to year on a satisfactory performance basis.

Carbon Fuel Foundation, Inc. Scholarship. A scholarship for the study of Mining Engineering offered by the Carbon Fuel Foundation, Inc. This scholarship carries an annual stipend of $600 for an outstanding high school graduate, and is subject to renewal for a total of four years on the basis of satisfactory school record for the preceding year and continued attendance by the recipient. The scholar must be a resident of West Virginia, and shall intend to accept employment in the coal mining industry following completion of the prescribed course in mining engineering.

Frank Ellis Christopher Coal Mining Engineering Scholarship. Established in January, 1961, by Mrs. Virginia Christopher Farland in honor of her father, Frank Ellis Christopher. Preference shall be given to male resident applicants for the study of mining engineering. It shall be awarded on the bases of ability performance, character, and need. The annual stipend is $800.

For Students in the School of Music

Board of Governors Scholarships in Music. Ten Board of Governors Scholarships in music are available each year for entering freshmen. These scholarships are open to performers on any band or orchestral instrument, as well as to organists, pianists, singers, composers, and theorists. The recipient is entitled to remission of all fees except those payable to State special funds, which total $16 per semester, and those chargeable to special services.

The winner of each scholarship must be a graduate of an accredited high school, and will enroll in the School of Music in the fall following the awarding of the scholarship, as a candidate for a degree in music.

Each scholarship will include four academic years, provided that the recipient maintains a scholarship record deemed by the Scholarship Committee of the School of Music to be worthy of continuance of the scholarship.

Auditions are in Morgantown on announced dates.

Winners are selected on the basis of musical ability, scholastic record, and personality. For further information address the Dean of the School of Music.

The Woman's Music Club of Morgantown Scholarship. The Woman's Music Club of Morgantown has established an annual scholarship for a qualified music student from West Virginia with preference, when possible, being given to a resident of Monongalia County. The award has a value of $106 per semester.

For Students in the School of Physical and Health Education, Recreation, and Safety

Grace M. Griffin Scholarship. The Grace M. Griffin Scholarship provides $200 (tuition) for a freshman woman student majoring in physical education. The recipient will be selected by the faculty of the Department of Physical Education for Women.

Recreation Society Scholarship. The West Virginia Recreation Society has established a scholarship for freshmen. Inquiries regarding this scholarship should be directed to the Recreation Department, School of Physical and Health Education, Recreation, and Safety, West Virginia University, or to the Coordinator of Scholarships, Zevely House, West Virginia University.

For Students in Any College or School of the University

Victor E. Albright Scholarship. This scholarship is awarded to a man or woman of good character, born and reared in Preston County and graduated from a Preston County high school in the year in which the scholarship is given.

Anonymous Scholarships. In 1956 an anonymous bequest was established for a scholarship fund to be used by worthy West Virginia students. Scholarships will be awarded from time to time to prospective and/or enrolled students on the basis of high school record and character. Scholarships will be for any chosen field of study and awarded from year to year, and renewed only when scholars have shown satisfactory progress. The single exception to these qualifications is that descendants of the testator shall be given first consideration regardless of his or her place of residence. The number benefiting from this grant will vary to as many as six or more.

Claude Worthington Benedum Scholarships. These scholarships will be awarded to worthy West Virginia high school graduates, selected on the basis of a state wide competitive examination, need and other qualifications. The average amount is $250 per year, although this may vary according to need.

Board of Governors Achievement Scholarships. In 1945 the Board of Governors authorized the establishment of 25 scholarships to be awarded annually to high school graduates. The scholarships entitle recipients to the remission of all fees except those payable to State special funds and those chargeable to special services.

Father Flynn Memorial Scholarship. This scholarship is awarded to an outstanding student of the graduating class of St. Francis High School, Morgantown, in memory of Father Peter Flynn, 50 years a Catholic priest and for many years a leading Morgantown citizen. It includes tuition and fees, and will be awarded by the Principal of St. Francis High School.

General Motors Scholarships. The General Motors Corporation in 1955 established a program of merit scholarships in the University. The first two were awarded to outstanding West Virginia high school graduates in the fall of 1955. They are granted for four years, so that by the fall of 1958 eight were in operation. Winners are selected on the basis of high scholarship, character, and potential for college study.

Harrison County Alumni Chapter Scholarship. This scholarship, established in 1950, provides tuition fees for an outstanding Harrison County high school graduate. Selection is made by the chapter.

Helvetia Scholarship. In 1956 Helvetia, sophomore men's honorary, established an annual award of $100 to be applied to tuition for a recipient chosen from the "Ten Top Freshmen" on the basis of financial need.

Leyenberger Scholarship Fund. This scholarship was established in 1956 in the memory of a Wheeling Presbyterian minister and his wife. The invested earnings of the original gift of $1,000 (established in the West Virginia University Foundation) are set aside for an annual scholarship grant to a worthy and outstanding student enrolled in the University. The exact value of the grant will vary, and the stipend is awarded on a year-to-year basis.

Loyalty Permanent Endowment Fund of the W.V.U. Alumni Association. This fund, an irrevocable trust with earnings pledged to University purposes, including scholarships, was established by the Alumni Association in 1937. Its principal is derived from contributions by alumni and other friends of the University; and it is administered by a self-perpetuating trust committee composed of three alumni, with the Kanawha Valley Bank of Charleston serving as trustee. During each academic year, this fund supports several University scholarships, all outright gifts of cash to deserving students with no obligation to repay other than a moral one at such time as the recipient feels he is financially able to contribute. An average of about eight students are aided by the program yearly.

Olin Mathieson Employees' Scholarship. The employees of Olin Mathieson Chemical Corporation (Morgantown Plant) have established a scholarship fund in West Virginia University for the purpose of giving aid and encouragement to children and/or grandchildren of former employees of the Corporation's Morgantown Operation wherever they may now reside, to secure college training in any chosen field of

study. The value of this scholarship is $200, and the recipient may continue to receive such grants from year to year for four years if academic and character standards of the University are met. (It is planned to expand this to a double scholarship, providing equal amounts for each of two individuals). The recipient will be chosen by the University, and selection of the applicant will be made on the basis of (1) ability to do college work, (2) character and personality, and (3) need for financial assistance to attend college. Candidates from any undergraduate class rank may be considered. In case no candidates are available from families of employees for a period of three consecutive years, the University is free to select other worthy recipients who may qualify under these conditions.

John Barton Payne Scholarships. A bequest from the late John Barton Payne, Taylor County native and former president of the American Red Cross (who lived in Kingwood and practiced law in Preston County), gave the University a sum of $12,000, income from which is to be used to aid two young men—one a native of Taylor County and the other a native of Preston County—to attend the University. Financial need and scholastic merit are prime considerations in selecting recipients for this four-year scholarship.

The Deem Rahall Memorial Scholarship. The Rahall family of Beckley established in 1951 a freshman scholarship in the University in memory of Deem Rahall. The scholarship is for an outstanding and worthy graduating senior in Woodrow Wilson High School who desires to attend the University. The annual stipend, awarded for the freshman year only, amounts to $250.

Myrtle Mae Sloan Scholarship. This scholarship was established in 1955 by Miss Viva O. Sloan of Morgantown in memory of her sister. The invested earnings of the original gift of $5,000 (established in the West Virginia University Foundation) are set aside for an annual scholarship grant to a worthy and outstanding student at the University. The exact value will vary, and the stipend is awarded on a year-to-year basis.

George E. Stifel Scholarship. Several years ago there was established in Wheeling a trust fund known as the George E. Stifel Scholarship Fund, the object of which is to help deserving graduates of the public schools of Wheling to obtain college educations. As many as four University students have received aid from this fund simultaneously.

West Virginia Interscholastic Forensics Scholarships. In 1950 there were established five University scholarships, two in debate, and one each in oratory, extempore, and interpretative reading, to be awarded annually to graduates of West Virginia high schools. These scholarships entitle the recipients to the remission of all fees except those payable to State special funds or chargeable to special services. Awards are made by the Department of Speech at the finals of the West Virginia Interscholastic Forensic Program on a date to be announced. Each scholarship remains in effect for four years unless revoked for disciplinary reasons, for failure to maintain scholastic standards, or for withdrawal from the University.

State High School Drama Festival Scholarships. In January, 1953 the Board of Governors of West Virginia University created the State High School Drama Festival Scholarships. Three grants are awarded annually to high school seniors who participate in the finals of the State High School Drama League, held annually at the University campus. Selection is made by a board of judges composed of members of the Department of Speech and those chosen receive remission of all fees for four years except those payable to special funds and those chargeable to special services. For information regarding participation in the Drama Festival, write to Executive Secretary, State High School Drama League, Department of Speech, West Virginia University, Morgantown, West Virginia.

State High School Forensic Tournament Scholarships. The present five scholarships awarded to high school seniors who participate in the annual State Finals of the Interscholastic Forensic Tournament had their origin in a Board of Governors order of February, 1950. A board of judges composed of staff members of the Department of Speech selects the five outstanding seniors in the tournament as recipients of these scholarships, which carry remission of all fees, except those payable to the

State special funds and those chargeable to special services, for four years. For information regarding participation in the annual Tournament, write to Executive Secretary, Interscholastic Forensic League, Department of Speech, West Virginia University, Morgantown, West Virginia.

Spencer Manufacturing Company Scholarship. Established in 1959 by the Spencer Manufacturing Company. The Company will pay $100 to the Roane County W.V.U. Alumni Association, which will be awarded to a graduate or graduates of a Roane County high school or an applicant who has had legal residence in Roane County at least five years when applying. The applicant must have been in the upper 15 per cent of his class scholastically, school citizenship must be exemplary, must have participated in extracurricular school activities, and show definite need of financial assistance. Interested applicants should contact their high school principals before June 1 of each year.

For Foreign Students

R. A. Farland Scholarship for Latin American Students. This scholarship was established in 1960 by Joseph Farland, Morgantown, in memory of his father Richard Ashville Farland. The recipient, a Latin American student, may hold the grant for more than one year, so long as he or she lives up to normal academic and conduct standards of the University. The annual stipend is $800.

UPPERCLASS SCHOLARSHIPS

For Students in the College of Agriculture, Forestry, and Home Economics

Andrew Delmar Hopkins Scholarship in Entomology. This scholarship, established in 1954, is in memory of an internationally known entomologist, for many years director of the W.V.U. Agricultural Experiment Station. It is for $200 per year and is awarded to a worthy senior or graduate student with an interest in entomology, who has demonstrated originality and research ability.

KDKA Agricultural Scholarship. This scholarship is in the amount of $100 yearly, and is made to a junior or senior in agriculture to recognize outstanding leadership, to encourage the use of radio in disseminating agricultural information, and to help train students in broadcasting techniques. It is sponsored by Radio Station KDKA, Pittsburgh, Pa.

Ralston Purina Company Scholarship. The Ralston Purina Company of St. Louis established in 1955 an annual scholarship for an outstanding student in agriculture. The stipend amounts to $500 a year.

West Virginia Dairy Products Association Scholarships. This association offers three $250 scholarships each year. Applicants must be sophomores majoring in dairy foods.

Sears Roebuck Foundation Agricultural Scholarships. A grant of $2,250 from the Sears Roeuck Foundation of Chicago makes possible the awarding of 10 scholarships each year to deserving men enrolling as freshmen in agriculture or forestry, and to one sophomore in these fields. The freshman grants are $200 each, the sophomore grant is $250.

Phymosia Garden Club Scholarship. In 1954 the Phymosia Garden Club of Beckley started a special scholarship in support of conservation education and related to the Division of Forestry. A scholar is named annually by the club itself and awarded a grant of $100.

West Virginia Garden Clubs' Scholarship in Forestry. This is an award established in 1959 by 15 garden clubs in West Virginia. It is in the amount of $200, and is to be used by a student (or students) attending the Summer Forestry Camp. The funds will be granted at the direction of the Director of the Division of Forestry.

For Students in the College of Arts and Sciences

American Viscose Corporation Scholarship. The American Viscose Corporation of Marcus Hook, Pa., established in 1953 an undergraduate scholarship for a junior

or senior majoring in chemistry or chemical engineering. The annual value of the scholarship is $500, and alternates between students in the College of Engineering and the College of Arts and Sciences.

R. M. Davis Scholarship in Political Science. R. M. Davis, Morgantown coal operator, has given the University the sum of $5,000 to establish a scholarship in the Department of Political Science. The scholarship, with an average value annually of between $300 and $500, is granted to an undergraduate or graduate student whose specialty is international relations. Scholastic standing and qualities of leadership will be given primary consideration.

Charles B. Jolliffe Scholarship. The Radio Corporation of America in 1952 established the Charles B. Jolliffe Scholarship in honor of the director of R.C.A., an alumnus. The scholarship, valued at $800 per year, is awarded to an outstanding undergraduate student who has elected to major in chemistry, mathematics, or physics.

Mead Corporation Scholarship. This scholarship was established in 1956 by the Mead Corporation of Dayton for aid to a worthy student in science or engineering. It carries a stipend of $300.

Morgantown Community Players' Scholarships. These scholarships (generally four in number) were established in 1955. They are for University students participating in Department of Speech activities and/or courses with the following selection priorities: (1) a citizen of the Morgantown area; (2) a citizen of the State of West Virginia; (3) a non-resident student. These students shall be chosen on the basis of talent, industry, and academic achievement during their freshmen and sophomore years. Their names are then approved by the Morgantown Community Players. The scholarships are paid during the recipients' junior and senior years in the sum of $100 during each of the two years.

The Morgantown Service League Scholarship. This scholarship provides $200 a year for a full-time student in the Department of Social Work. The recipient must be a resident of West Virgina, and must be approved by the Chairman of the Department of Social Work.

The West Virginia Federation of Women's Clubs Scholarship in Social Work. This scholarship provides $150 a year and is awarded to a full-time student in the Department of Social Work. The recipient, selected by the Chairman of the Department, must be a resident of West Virginia.

For Students in the College of Commerce

West Virginia Consumers Finance Association Scholarship. This association established in 1946 an annual scholarship of $150. This scholarship is for the aid of an outstanding and needy University student who is a resident of West Virginia. In 1953 the association specifically designated this scholarship for the use of an outstanding student in the College of Commerce. Recipients are chosen on the basis of character, academic achievement, and general campus activities.

For Students in the College of Engineering

West Virginia Society of Professional Engineers Scholarship. Sponsored by the Woman's Auxiliary of the Charleston Chapter of the West Virginia Society of Professional Engineers, Charleston, West Virginia. Recipient must be an upperclass woman in the College of Engineering. She must have a financial need, preferably she should be from Kanawha County, but in any event, a resident of West Virginia. She must have above a 2.000 grade-point average. This scholarship has a cash value of $100 per year.

Machinery, Inc., Engineering Scholarship. This scholarship is to be awarded to a worthy senior student of good moral character, a resident of West Virginia, who expects to pursue the field of engineering upon graduation. The amount is $400 per year.

Mead Corporation Scholarship. This scholarship was established in 1956 by the Mead Corporation of Dayton, Ohio, for the aid of a worthy student in engineering or science. It carries a stipend of $300.

American Viscose Corporation Scholarship. The American Viscose Corporation of Marcus Hook, Pa., established in 1953 an undergraduate scholarship for a junior or senior majoring in chemical engineering or chemistry. The annual value of the scholarship is $500, and it alternates between students in the College of Arts and Sciences and the College of Engineering.

For Students in the School of Journalism

All scholarships in the School of Journalism are given on the basis of ability, scholastic achievement, promise for a successful career in one of the many fields of communications media, and need of financial assistance.

Charleston Press Club Scholarships. The Charleston Press Club established in 1951 an annual grant of $200 for sophomores, juniors, or seniors in journalism. This amount is generally awarded in the amount of $100 each to two recipients.

Journaliers' Tuition Scholarship. This scholarship, consisting of $106 was begun in 1958 and is awarded the first semester of each year to a worthy and deserving upperclassmen in journalism. The sponsor is Journaliers, men's journalism honorary.

For Students in the School of Medicine

Claude Worthington Benedum Foundation Medical Scholarship. A fund of $1,200 yearly has been granted by the Foundation for the aid of medical students with satisfactory academic records who need financial help to complete a given year's course of study. There is no set number.

Joseph Collins Foundation Scholarships. Established in 1951 under a bequest of the late Dr. Collins, physician and pioneer neurologist, these scholarships provide financial support in varying amounts for needy and deserving students. Recipients are determined on the basis of scholarship, interest in arts or letters or other cultural pursuits outside the field of medicine, and on the intention of entering neurology or psychiatry as specialists or of becoming general practitioners. Recipients also must show a need for financial aid. There is no set number.

For Students in the School of Mines

Clarence Wayland Watson Memorial Scholarship. In the winter of 1955 the University received an anonymous gift for the establishment of the Clarence Wayland Watson Memorial Scholarship. Scholarship aid in varying amounts from this fund will be awarded from time to time to an outstanding and worthy graduate or undergraduate who will pursue some branch of study in coal development or coal research.

Armco Foundation Scholarship. The Armco Foundation of the Armco Steel Company, Middletown, Ohio, established in May of 1954, two scholarships in the field of Mining Engineering. Each grant provides $250 per academic year. One is awarded to a junior student and the other to a senior student in the School of Mines. Selection of recipients is made on basis of academic record, character, and personal leadership qualities.

Lorado Coal Mining Company Scholarships. The Lorado Coal Mining Company, beginning in the fall of 1954, provided scholarship grants of $500 each per academic year to two students in the field of Mining Engineering. Selection of the recipients is made by the Lorado Coal Mining Company with the approval of the Dean of the School of Mines.

The Central Appalachian Section of the American Institute of Mining, Metallurgical and Petroleum Engineers has awarded three scholarships to boys in Kentucky, West Virginia, and Virginia. These boys are eligible to attend any school teaching mining engineering in the area.

Magnolia Petroleum Company Scholarship. This scholarship, in the amount of $400 per year plus fees (not to exceed a total of $500), is awarded to a worthy senior in the petroleum and geological engineering option of mining engineering. It is not available every year, however, for the University shares it with two other institutions

Socony-Mobil Scholarship in Petroleum Engineering. This is essentially an award to a senior student in petroleum engineering. It consists of $400 plus fees and tuition, and is based on the candidate's interest in the production side of the petroleum industry, and in his career potential.

The Youngstown Sheet and Tube Company Scholarships in Mining Engineering. This scholarship will be awarded annually to a junior regularly enrolled in the School of Mines in Mining Engineering; (2) a student who is enrolled in some other division of engineering, but who has completed the essential requirements of the first two years for Mining Engineering and who is transferred to the Mining Department; and (3) a student who is transferred to the School of Mines from another accredited college and who has completed college work equivalent to the first two years of Mining Engineering at West Virginia University. The selection of the recipient will be on the basis of recommendations of the faculty of the School of Mines, subject to final approval by the sponsoring company. The student will be continued on the scholarship for his senior year on the basis of satisfactory academic performance and recommendation of the faculty of the School of Mines. The scholarship shall provide a direct payment of $200 a semester.

The Eastern District of the American Petroleum Institute Scholarship in Petroleum Engineering. This scholarship was established in 1959 by The Eastern District of the American Petroleum Institute. The amount of this scholarship is $500 for one year, and is awarded annually to a University in the Eastern District Area which includes the states of West Virginia, Pennsylvania, Ohio, Kentucky, New York, Virginia, Indiana, and Illinois. It was awarded to West Virginia in 1960. The Scholarship Committee of the Institute will notify the University if a scholarship is to be granted in a given academic year, and will then choose a recipient from recommendations by the faculty of the School of Mines.

The G. Ralph Spindler Scholarship Fund. This scholarship fund for varying types of aid to students in Mining Engineering was established in February, 1961 in memory of the late Dean of the School of Mines.

For Students in the School of Music

Band and Orchestra Participation Scholarships. These grants are awarded to those members of the band and orchestra who are especially well qualified, and who, after two years' service, are invited to remain as members of these organizations. Recipients receive allowance in the form of remission of fees. There is no specific number.

Mrs. Russell Mac Murphy Chase Scholarship in Piano. The School of Music was named in the will of the late Mrs. Russell Mac Murphy Chase, the University's first piano teacher, as the recipient of the sum of $1,500, the income of which is to be used for scholarships in the piano department.

Presser Foundation Scholarship. This scholarship, established in 1952 by the Presser Foundation of Philadelphia, provides an annual grant of $400 for the aid of a student in the School of Music of good character and satisfactory standing, who may not carry on his studies without financial help provided by the foundation. Preference is given those who expect to become teachers.

University Band Drum Major Scholarship. The Board of Governors in 1953 established a drum major scholarship to be awarded annually. It entitles the recipient to remission of all fees, except those payable to State special funds and those chargeable to special services.

For Students in the School of Nursing

C. Jeanette Oswald Fund Scholarship. The principal sum is invested, the income of which is to be used to aid students who are registered nurses and wish to continue their work toward a degree in Nursing.

West Virginia Nurses Association Scholarship. Contributions from 10 districts of the West Virginia Nurses Association provide a nursing scholarship of $250 annually to be awarded to a student who shows outstanding promise of nursing leadership and who has need of financial assistance.

Mary Jane Parry Scholarship. The estate of Mary Jane Parry, who for many years was a prominent nurse in Charleston, provides an annual scholarship of $250 to a student in the School of Nursing. Selection of the recipient is based on need and scholastic ability.

Patrons' Scholarships. Grants of $50 to $100 per semester are available from private unrestricted contributions to the School of Nursing. These are awarded on the basis of need.

For Students in the School of Pharmacy

The American Foundation for Pharmaceutical Education. This foundation, desiring to encourage higher standards in pharmaceutical education, has provided the School of Pharmacy with a scholarship grant. The grant is in the amount of $200 per year, and is available to juniors and seniors having not less than a "B" average, and is awarded on the basis of scholarship and financial need.

P. A. and Ethel N. George Pharmacy Scholarship. Established in 1950 by Charles A. George of Ronceverte, this scholarship of $50 per semester is available to a student in the School of Pharmacy from either Greenbrier or Monroe counties who needs financial assistance to complete his pharmaceutical education. The recipient must maintain at least a "C" average to continue on this scholarship.

The Pharmacists of West Virginia, individually and collectively, have provided a number of scholarships in varying amounts for capable students in the School of Pharmacy needing financial assistance to aid them in their pharmaceutical education. The final selection of recipients is made by a committee of the West Virginia State Pharmaceutical Association. The following scholarships are a part of this program:

Lynn L. Carson Pharmacy Scholarship
Clarksburg Drug Company Pharmacy Scholarship
Fredlock Pharmacy Scholarship
Griest's Drug Store Pharmacy Scholarship
Henderson Drug Store Pharmacy Scholarship
Ohio Valley Pharmacy Scholarship
Rexall Clubs Pharmacy Scholarship
Southern West Virginia Pharmaceutical Auxiliary Pharmacy Scholarship (for women only)
West Virginia Pharmacy Scholarship

The Pepsodent Presidential Scholarship. This scholarship, consisting of $100 for each of five years, is awarded each year to a person desiring to study for the profession of pharmacy.

For Students in Any School or College of the University

Dean Edna Arnold Memorial Scholarship. Associated Women Students established in the spring of 1956 a scholarship in the University in memory of the late Edna Arnold, Dean of Women at the University during the years 1935 to 1955. This scholarship covers full tuition for two semesters. It is presented annually to an outstanding and deserving upperclass woman student in the University.

F. F. McIntosh, Jr. Scholarship. This scholarship in memory of F. F. McIntosh Jr. is awarded annually to a young man or woman from Roane County and has a value of $100 per year. Selection of the scholar will be made by the West Virginia University Alumni of Roane County.

Sophia and Clora Benedum Scholarship Fund. The will of the late Clora Benedum of Bridgeport established a $10,000 trust fund to be known as the Sophia and Clora Benedum Scholarship Fund. The provisions of the will state that "income is to be used in assisting graduates of Bridgeport High School in attending West Virginia University." Two scholarships are awarded each year on basis of top grades of all students from Bridgeport High School.

Board of Governors Student Body President Scholarship. This scholarship is to be awarded to the student elected as president of the student body during the academic year which he serves most of his term. The scholarship entitles him to remission of all fees except those going to special services.

Delta Gamma Alumnae Chapter Scholarship. As a part of the sorority's national philanthropic project, the local alumnae chapter awards $100 annualy to a deserving blind student.

Olin Mathieson Employee's Scholarship. The employees of Olin Mathieson Chemical Corporation (Morgantown Plant) have established a scholarship fund in West Virginia University for the purpose of giving aid and encouragement to children and/or grandchildren of former employees of the Corporation's Morgantown Operation wherever they may now reside, to secure college training in any chosen field of study. The value of this scholarship is $200, and the recipient may continue to receive such grants from year to year for four years if academic and character standards of the University are met. (It is planned to expand this to a double scholarship, providing equal amounts to each of two individuals). The recipient will be chosen by the University, and selection of applicant will be made on the basis of (1) ability to do college work, (2) character and personality, and (3) need for financial assistance to attend college. Candidates from any undergraduate class rank may be considered. In case no candidates are available from families of employees for a period of three consecutive years, the University is free to select other worthy recipients who may qualify under the above conditions.

West Virginia Division of the United Daughters of the Confederacy Scholarship. This scholarship was established in 1950 by the West Virginia Division of the United Daughters of the Confederacy. It has a value of $100 per year. Selection is made by the United Daughters of the Confederacy.

O. J. Morrison, Jr. Memorial Fund. This is a bequest to the University for the establishment of a trust fund for scholarships in memory of O. J. Morrison, Jr., of Charleston, former University track captain. This gift was provided for in the will of Freda Morrison Smith, who died in 1955. Mrs. Smith expressed the wish that the earnings from the trust fund go to aid such boys and girls who for financial reasons would not be able to attend college. Mrs. Smith and Mr. Morrison were two of the five children of the late O. J. Morrison of Charleston, founder of the Morrison department stores.

Delta Delta Delta Local Award Scholarship. This scholarship is open to all undergraduate women attending West Virginia University. It is based on need, scholarship, and service to the community. The presentation is made each spring. For further information contact the Delta Delta Delta House.

The Louise and Arlen Swiger Scholarship Fund. This is a trust fund given to the West Virginia University Foundation for the support of scholarships in West Virginia University to aid worthy students. The scholarship is inactive at this time.

For Foreign Students

Board of Governors Foreign Student Scholarships. These two scholarships are available to foreign students, graduate or undergraduate. Recipients are entitled to remission of all fees except those payable to State special funds and those chargeable to special services, and are awarded at the discretion of the President of the University, usually to supplement campus or civic awards, or in case of emergency.

West Virginia Federation of Women's Clubs Pan-American Scholarship. The winner of this scholarship is remitted tuition fees by the Board of Governors, and receives room, board, books, and other incidentals from the federation.

West Virginia Home Demonstration Council Foreign Scholarships. This scholarship, established in 1949 for the purpose of promoting better understanding between the rural peoples of the United States and of foreign countries, provided for books, board, and other necessary living expenses, and remission of fees for a foreign student enrolled in the Division of Home Economics.

West Virginia University All-Campus Foreign Student Scholarship. The All-Campus Foreign Student Committee, representative of several campus organizations, in 1951 established a one-year scholarship for the support of a foreign student. Board, room and incidental expenses are paid annually by the committee, with remission of tuition and fees provided by the University.

GRADUATE SCHOLARSHIPS

For Students in the College of Agriculture, Forestry, and Home Economics

Andrew Delmar Hopkins Scholarship in Entomology. This scholarship, established in 1954, is in memory of Dr. Andrew Delmar Hopkins, internationally known entomologist and for many years director of the W.V.U. Agricultural Experiment Station. It is for $200 per year and is awarded to a worthy senior or graduate student with an interest in entomology, who has demonstrated originality and research ability.

For Students in the College of Arts and Sciences

National Society of Colonial Dames of America Scholarship. The society in 1952 established an annual scholarship for the aid of a worthy graduate student for work in the field of early American history. The annual value of the scholarship is $150. This award rotates among several institutions.

R. M. Davis Scholarship in Political Science. R. M. Davis, Morgantown coal operator, has given the University the sum of $5,000 to establish a scholarship in the Department of Political Science. The scholarship, with an average annual value of between $300 and $500, is granted to an undergraduate or graduate student whose specialty is international relations. Scholastic standing and qualities of leadership will be given primary consideration.

Mead Corporation Scholarship. This scholarship was established in 1956 by the Mead Corporation of Dayton for aid to a worthy student in science or engineering. It carries a stipend of $300.

The Morgantown Service League Scholarship. This scholarship provides $200 a year for a full-time student in the Department of Social Work. The recipient must be a resident of West Virginia, and must be approved by the Chairman of the Department of Social Work.

The West Virginia Federation of Women's Clubs Scholarship in Social Work. This scholarship provides $150 a year and is awarded to a full-time student in the Department of Social Work. The recipient, selected by the Chairman of the Department, must be a resident of West Virginia.

The Junior Leagues Scholarship. This scholarship, providing $200 a year for a graduate Social Work student, was established in 1942. It is jointly supported by the four leagues of West Virginia. Applicants must be residents of the State, and all applications are to be addressed to the Department of Social Work.

Rehabilitation Traineeships in Social Work. Four or more traineeships in the amount of $1,800 per year for first-year students and $2,000 for second-year students are made available by the Office of Vocational Rehabilitation, U. S. Department of Health, Education, and Welfare. Candidates who plan to prepare for future work in rehabilitation of the physically or mentally handicapped are eligible to apply. Admission to the Department of Social Work for graduate study is prerequisite. Inquiry or application should be made to the Department of Social Work.

Mental Health Traineeships. Four to six traineeships in the amount of $1,800 per year for first-year students and $2,000 for second-year students are available from the National Institute of Mental Health, U. S. Department of Health, Education, and Welfare. Candidates who plan to prepare for a career in psychiatric social work are eligible to apply. Admission to the Department of Social Work for graduate study is prerequisite. Inquiry or applications are to be made to the Department of Social Work.

West Virginia Department of Public Assistance Scholarships. These educational leave stipends, available from the Social Service Division and The Child Welfare Division, amount to $175 per month plus dependent's allowances and tuition. They are available to employees of the Department, including applicants who are accepted for employment with a view to obtaining graduate education in social work. The recipient agrees to work for the Department of Public Assistance at least one year for each year of educational benefits received. In exceptional circumstances, employees may receive stipends to complete the senior year in college.

Application for the stipend is made to Mr. Benjamin Guy III, Chief, Division of Social Service, or to Miss Lillian Nagy, Chief, Division of Child Welfare. Applicants must have been granted admission for graduate education in social work: applications to West Virginia University should be addressed to the Department of Social Work.

United Fund of Kanawha Valley. Educational Stipends in Social Work. Two stipends of $1,500 per year each are available to candidates who desire to serve, upon completion of social work education, in one of the agencies in the Kanawha United Fund area (Charleston, West Virginia and vicinity). Two agencies currently designated to receive and grant these stipends are the Family Services of Charleston and the West Virginia Children's Home Society. Application is made to Department of Social Work.

Family Service of Charleston. See *United Fund* (above). Inquire of: Miss May Buckingham, executive secretary, Family Service of Charleston, 1117 Virginia St., Charleston 1, W. Va.

West Virginia Children's Home Society (including Davis Child Center.) See *United Fund* (above). Inquire of: Mrs. Betty Heavener, director, Washington St., E., Charleston, W. Va.

The Children and Family Service Association, Wheeling, West Virginia. A work-study stipend of approximately $1,300 per year may be granted to employees of that agency or candidates for employment desiring to make commitment to work year-for-year. Preference given to second-year students. Candidates must have been admitted for graduate social work education. Applications for graduate social work education may be obtained from Department of Social Work.

Pennsylvania Department of Welfare, Bureau of Children's Services, Educational Stipends. These stipends are an approximate amount of $275 per month and are available for persons who want to secure training in social work before beginning employment with Child Welfare Services, as well as for staff members who may apply for Educational Leave for professional training. Candidates for scholarships will be selected on the basis of their interest in Rural Child Welfare and their potentialities for successful performance in the profession of social work. They must:

(1) meet the minimum qualifications for employment.
(2) be able to qualify for admission to an accredited school of social work.
(3) be interested in public child welfare in rural counties and free to work in any part of the Commonwealth on a commitment of one year of employment for each year of training received.

Applications should be made to Miss Jean Farquhar, Training Advisor, Bureau of Children's Services, Department of Welfare, Harrisburg, Pa.

Family Service Association of Lycoming Valley, Williamsport, Pa. Variable amount, year-for-year commitment required. For information inquire of: Robert Janos, executive-director, Family Service Association, Williamsport, Pa.

Family and Children's Service, Harrisburg, Pa. Scholarship for graduate in social work education. Variable amount. Year-for-year commitment. Inquire of: Mrs. Lenore S. Meffley, executive secretary, Family and Children's Service, 201 South St., Harrisburg, Pa.

Family Service Association of Wyoming Valley, Wilkes-Barre, Pa. Approximately $1,000. Year-for-year commitment required. Inquire of: Miss Dorothy Cohen, executive director, Family Service Association, Wilkes-Barre, Pa.

Family Service of Lynchburg, Virginia. Scholarship of $1,500 for first year and at least $1,500 for second year. Commitment required. Address inquiries to Department of Social Work.

Jewish Family and Children's Service, 508 Third Ave., Pittsburgh 19, Pa. First- and second-year scholarships available for students who plan to do field work in agency. Commitment one year of employment after graduation for each year of scholarship. Apply to Department of Social Work.

Family and Children's Service, 808 House Bldg., 4 Smithfield St., Pittsburgh 22, Pa. Scholarships available, preferably to second-year students who plan employment

at agency for at least one year thereafter. Admission to Department of Social Work required before applying to agency.

Family and Child Service, 708 Commerce Bldg., Erie, Pa. Applicant must be in second year of graduate work. Preference given to Erie and Erie County residents. Acceptance of scholarship carries obligation to accept employment with agency for one year following completion of course, if employment is offered. Inquire of Department of Social Work.

Family Service of Cincinnati and Hamilton County, 2343 Auburn Ave., Cincinnati 19, Ohio. First- and second-year grants are available to students who are able to accept commitment to work at agency for a minimum of one year (preferably longer) following training. Preference to those who have had previous social work experience. Inquire of Department of Social Work.

Jewish Family Service Bureau, 1430 Central Parkway, Cincinnati 10, Ohio. First-second- and third-years grants available. Either field work or employment commitment required. Admission to accredited school required before applying to agency. Inquire of Department of Social Work.

Family Service Society, 309 Wick Bldg., Youngstown 3, Ohio. Scholarships of $1,800 for first year and $200 for second year. Commitment year-for-year. Field work in a family service agency for one period is required. Address inquiries to: Earl D. Morris, executive secretary, or to Department of Social Work.

Maryland Department of Welfare Work-Study Plan. By arrangement with West Virginia University Department of Social Work, employees of the Allegheny County Welfare Board, the Garrett County Welfare Board (and other local offices within commuting distance of Morgantown) may undertake two years of graduate social work education while employed by the agency at approximately $275 per nine months. Admission to the school is determined in the regular way. Field work is planned in advance in a unit of the Maryland Department of Welfare. Inquiries should be addressed to Chairman, Department of Social Work, West Virginia University.

U. S. Veterans Administration, Department of Medicine and Survery, Social service, paid field work. Second-year students whose field placements are in the social service of a Regional Office or Hospital, may apply for status of paid field work "employee." Remuneration is $2.40 per hour, that is, approximately $1,100-$1,900 during a block placement.

For Students in the College of Education

Lakin Roberts Memorial Scholarship. This scholarship is open to graduate students in education and is worth $200 per year.

For Students in the College of Engineering

Mead Corporation Scholarship. This scholarship was established in 1956 by the Mead Corporation of Dayton, Ohio for the aid of a worthy student in engineering or science. It carries a stipend of $300.

For Students in the School of Mines

Clarence Wayland Watson Memorial Scholarship. In 1955 the University received an anonymous gift for the establishment of the Clarence Wayland Watson Memorial Scholarship. Aid in varying amounts from this fund will be awarded from time to time to an outstanding and worthy graduate or undergraduate who will pursue some branch of study in coal development or coal research.

For Students in Any School or College of the University

The Masonic Grand Lodge Scholarship. This scholarship to be awarded to a graduate student who is a candidate for either the Master's or Doctor's degree. Student must have a high scholastic rating in his undergraduate or in his graduate work, not hold any other fellowship, scholarship, assistantship or grant, must enroll for a full program of courses, and be recommended by the Chairman of his Depart

ment. The annual stipend is $800 for one year only. Applications should be submitted to the Dean of The Graduate School, on or before July 15.

For Foreign Students

Board of Governors Foreign Student Scholarships. These two scholarships are available to foreign students, graduate or undergraduate. Recipients are entitled to remission of all fees except those payable to State special funds and those chargeable to special services, and are awarded at the discretion of the President of the University, usually to supplement campus or civic awards, or in case of emergency.

PRIZES AND AWARDS

Awards for prizes in the University are made in accordance with the following rules:

No composition, in whole or part, shall be submitted in competition for two prizes.

Only students pursuing courses leading to baccalaureate degrees are eligible for any prize, except for the James F. Brown prize.

No student shall be eligible to enter any contest who has not been a resident student in this University for at least one semester preceding the semester in which the contest is to be held, and who, unless he be a competitor for the James F. Brown prize, is not a resident student in good standing in the University in the semester in which the contest is held.

No successful contestant may become for a second time a competitor for the same prize.

If in any contest the judges find no manuscript of sufficient merit, there shall be no prize awarded for that year.

Students intending to compete in any essay-writing contest must notify the Scholarship Coordinator no later than March 15. Three typewritten copies of each essay must be in the hands of the chairman of the committee not later than May 15.

The conditions upon which the awards in the several contests are made may be learned upon application to the office of the Scholarship Coordinator.

For Students in Any School or College of the University

Scholastic Improvement Award. This award of $75 and an appropriate key is presented at the close of each regular academic year to the freshman resident of Men's Hall showing the highest grade improvement from the first to the second semester of that year. The award was established in 1958 by the action of the faculty resident and proctors' council, with funds to be provided by the Co-op Fund of Men's Hall.

For Students in the College of Agriculture, Forestry, and Home Economics

The Koehler Award. This award, sponsored by Tau Chapter of Phi Lambda Upsilon, holds a cash value of $100. It is to be given to a sophomore student majoring in chemistry, chemical engineering, pharmacy, or agricultural science with the following requirements: a 3.5 grade-point average on a minimum of 11 hours of chemistry course work, and a 3.5 grade-point average on total academic record for a minimum of three semesters (not including summer terms).

West Virginia Junior Chamber of Commerce Wildlife Management Scholarship Award. This award consists of $500 annually to the winner of a state-wide essay contest on "Financial Benefits to Be Derived From a Local Conservation Project." The winner also must meet all entrance requirements of the University.

Borden Agricultural Award. This award, established in 1954 for an initial five-year period, is in the amount of $300 annually. It is made to the senior student majoring in agriculture who has achieved the highest grade in all college work preceding the senior years, and who has included in his curriculum two or more dairy courses. It is supported by the Borden Company Foundation.

The Virginia Dare Award. An award of $25 and a plaque goes annually to the outstanding senior student in dairy foods. It is maintained by the Virginia Dare Extract Company.

The Charles Pfizer and Company Award. This award goes annually to an outstanding student who plans a career in extension work.

Borden Home Economics Award. This award, established in 1954 for an initial five-year period, is in the amount of $300 annually. It is made to the senior student majoring in home economics who has achieved the highest average grade in all college work preceding the senior year, and who has included in her curriculum two or more courses in foods and nutrition. The award is supported by the Borden Company Foundation.

The La Verne B. Davis Home Economics Award. This award of $25 was established and is supported by Mr. and Mrs. Richard Earle Davis. It is presented annually to the graduating senior in the Division of Home Economics who has maintained the highest scholastic average during four years of residency.

For Students in the College of Arts and Sciences

The Waitman Barbe Memorial Prize. The English Club offers a prize of $25 in memory of Waitman Barbe, poet, scholar, and adviser to the English Club during his long term of faculty service. It is awarded to some student regularly enrolled as a junior or senior for creative work in the field of literature, either in prose or in poetry or in both. The minimum length of such compositions must be 4,000 words of prose or 100 lines of poetry.

Chi Omega Sorority Prize. This $15 prize goes to the sociology major with the highest academic ranking. All work done at the University is taken into account. No student is eligible to compete unless his junior or senior years have been spent at West Virginia.

The West Virginia Society of the Sons of the American Revolution Award. This award of $100 goes each year to the writer of the best essay on a special topic in the field of West Virginia history during the colonial and early national periods.

The Koehler Award. This award, sponsored by Tau Chapter of Phi Lambda Upsilon, holds a cash value of $100. It is to be given to a sophomore student majoring in chemistry, chemical engineering, pharmacy or agricultural science with the following requirements: a 3.5 grade-point average on a minimum of 11 hours of chemistry course work, and a 3.5 grade-point average on total academic record for a minimum of three semesters (not including summer terms).

The William Jennings Bryan Prize. The Honorable William Jennings Bryan, before his death, gave a sum of money, the actual income of which is offered as a prize ($50) to the student in the University who shall write the best essay on some subject in the science of Government.

For Students in the College of Commerce

West Virginia Society of Certified Public Accountants Award. In the fall of 1957 the West Virginia Society of Certified Public Accountants established one or more awards of $100 each to be given annually to a student at West Virginia University in the last semester of his junior year as an accounting major, the selection of such student to be made by the Dean of the College of Commerce.

The Erwin Award in Accounting. This $100 award goes in late April each year to a student in the College of Commerce majoring in accounting. The college applies the criteria of scholarship, character, and interest in accounting in selecting winners.

The West Virginia Tax Institute Award. This $100 award goes annually to a senior in the College of Commerce on the basis of scholarship, character, professional promise, and interest in the field of taxation.

The Daniel S. Witschey Award. Robert E. Whitschey offers $50 each year to an outstanding student majoring in accounting.

For Students in the College of Engineering

The Rufus A. West Award. The late Rufus A. West, a former instructor, because of his interest in the college and in the young men who have been and are students therein, and with the further idea of promoting sound scholarship, bequeathed $10,000, the income from which is used as an annual award to the member of the graduating class of the College of Engineering who has maintained the highest scholarship as measured by his grade-point average on the last 35 hours of University credit.

The James Weimer Memorial Award. This award pays tuition for one year. The donor desired anonymity. The award is given to the senior making the highest average his first three years in chemical engineering.

The Koehler Award. This award, sponsored by Tau Chapter of Phi Lambda Upsilon, holds a cash value of $100. It is to be given to a sophomore student majoring in chemistry, chemical engineering, pharmacy, or agricultural science with the following requirements: a 3.5 grade-point average on a minimum of 11 hours of chemistry course work, and a 3.5 grade-point average on total academic record for a minimum of three semesters (not including summer terms).

Dr. H. P. Simons Award in Chemical Engineering. An award, established in 1961 by Omega Chi Epsilon, chemical engineering honorary, in honor of Dr. H. P. Simons. It consists of $25 to be awarded to the chemical engineering senior who made the greatest academic improvement as a junior.

For Students in the College of Law

The Charles M. Love Award. This award was established in 1954 by a gift from Charles M. Love of Charleston. The purpose is to recognize outstanding contributions made to the *West Virginia Law Review* by students enrolled in the College of Law. Awards are made from time to time by the law faculty in the amount of $50 each.

The West Virginia Law School Association Awards. The West Virginia Law School Association has established annual scholarship awards to such third year member and such second year member of the student board of editors of the West Virginia Law Review as, in the judgment of the faculty of the College of Law, shall have made outstanding contribution to the West Virginia Review. The amount of each of these two annual awards is $50.

The James F. Brown Prize. James F. Brown, alumnus, "with a desire to stimulate the young men of the State to fuller consideration of the 'inalienable rights of mankind,' and especially those guaranteed by the Constitutions of the State and the United States," has contributed $5,000 to the University, the income from which is to be "used as a prize for the best essay or paper each year on the subject of the individual liberties of the citizen as guaranteed by the Constitutions." The income may be given as a single prize, or it may be divided into a first and second prize. For the present the award is made as a single prize of $200. The subject for the essay for the current year may be obtained from the secretary of the College of Law. Any regularly enrolled student within one year after receiving an undergraduate degree may compete for the prize. Graduates of the College of Law or the School of Medicine, or holders of any postgraduate degree are not eligible to compete for the prize.

The Nathan Burkan Memorial Prize. The American Society of Composers, Authors, and Publishers has established the Nathan Burkan Memorial Competition, open to the leading universities and colleges of the country that offer courses in law. A prize of $100 is available to each institution, to be awarded to the student in the graduating class in law who prepares the best paper on the subject of "Copyright Law."

The Lawyers' Title Award. This award is made by the college to the graduating student found to have been most proficient in Property Law. The award consists of an appropriate certificate and $100 in cash.

The Tax Institute Award. The West Virginia Tax Institute has established a Tax Institute Award of $100 to be made annually to the student in the College of Law who is judged by a faculty committee to have demonstrated the most interest and to have been most proficient in the study of tax law.

The Frank Bliss Enslow Legal Scholarship Award. The late Mrs. Frank Bliss Enslow of Huntington provided in her will a trust fund in support of the Frank

Bliss Legal Scholarship at the University. This annual award is restricted to students enrolled in the College of Law, and selection is made on the basis of ability, character, financial status, and scholarship qualifications. Recipients must be residents of West Virginia, and preference will be given applicants from Cabell County. The amount of the scholarship will be determined from year to year. A second-year man holding the scholarship award can repeat as its winner during his final year if conditions warrant.

The Patrick Duffy Koontz Scholarship Awards. The late Patrick Duffy Koontz and Arthur Burke Koontz have donated to the University certain securities, the income from which is used for the purpose of establishing scholarship awards in the College of Law for worthy students from West Virginia. The value of each scholarship is $250, and there are as many as four or five in operation concurrently. These awards are to be made to such second- or third-year students who show outstanding promise with respect to scholastic ability and attainment, moral force of character, and leadership.

The Tax Commission Prize. Five members of the State Tax Commission in 1902—W. P. Hubbard, Henry G. Davis, John K. Thompson, L. J. Williams, and J. H. Holt —gave the sum of $1,350, later increased by unawarded sums to $1,500, the income from which is used annually as a prize for the "best original work bearing on matters of taxation in West Virginia." The conditions of the competition are determined by the Council of Administration. The prize at present is in the amount of $50. The subject for the essay for the current year may be obtained from the secretary of the College of Law.

For Students in the Division of Military Science and Air Science

ARMY AWARDS

Lt. James C. Borden, Jr. Memorial Award. The West Virginia University Mountaineer Rifle Club and Gamma Pi Chapter of Sigma Nu Fraternity award each year a bronze trophy to the outstanding rifleman on the Varsity Rifle Team. The winner's name is inscribed on a plate on the base of the trophy which remains on permanent display in the Armory.

Lt. James E. Marshall Memorial Award. The Beta Psi Chapter of Beta Theta Pi Fraternity awards each year a bronze trophy to the most outstanding West Virginia University Army ROTC senior infantry student. The winner's name is inscribed on a plate at the base of the trophy which remains on permanent display in the Armory. A small metal emblem attesting to the honor is presented to the recipient.

Association of the United States Army Award. The Association of the U. S. Army awards each year a medal to the junior Army ROTC student most outstanding in military aptitude.

West Virginia Reserve Officers Association Award. The West Virginia Reserve Officers Association awards medals each year to the senior Army ROTC student and sophomore Army ROTC student most outstanding in military aptitude.

Armed Forces Communication Award. The Armed Forces Communications Association awards a medal each year to the outstanding senior Army ROTC students majoring in Electrical Engineering.

American Ordnance Association Award. The American Ordnance Association awards each year a gold scholarship key to the outstanding senior Army ROTC student commissioned in the Ordnance Corps.

West Virginia Sons of the American Revolution Award. The West Virginia Sons of the American Revolution awards each year a medal to the sophomore Army ROTC student most outstanding in military proficiency.

West Virginia Society of the Daughters of the Founders and Patriots of America Award. The West Virginia Society of the Daughters of the Founders and Patriots of America awards a medal each year to the freshman Army ROTC student most outstanding in military aptitude.

Department of the Army Superior Cadet Ribbon Award. The Department of the Army awards each year a ribbon to the outstanding all-around Army ROTC student in each class.

AIR FORCE AWARDS

Society of the Amercian Military Engineer Award. This award is presented to the top 20 juniors and the top 20 seniors in Engineering throughout the nation who are enrolled in Air Science.

Air Force Association Award. The Air Force Association presents this award to a senior for outstanding leadership, scholarship, and campus activities.

West Virginia Aviation Foundation Award. Awards of $50 are presented to a senior and to a sophomore for leadership, scholarship, and participation in school activities.

Chicago Tribune Award. Each year this award is presented for military achievement, scholastic attainment, and high moral character.

West Virginia Reserve Officers Association Awards. Presented to a senior and to a sophomore cadet for outstanding leadership in campus activities.

Colonel Joe W. Compton Award. Presented to a senior cadet for outstanding service to the University, the AFROTC Wing, and for demonstrating high qualities of personality, character, and leadership, in memory of Colonel Joe W. Compton, Professor of Air Science from 1953 to 1955.

Convair Award. Presented to an outstanding sophomore selected for advanced AFROTC in a category leading to flight training.

Sons of the American Revolution Award. Presented to a freshman cadet for exhibiting in his work a high degree of leadership and military bearing.

Rifle Team Awards. Presented to the two top-average scorers on the AFROTC Rifle Team.

For Students in the School of Mines

West Virginia Coal Mining Institute Prize for Students in the School of Mines. In order to stimulate interest on the part of mining engineering students in their profession, the West Virginia Coal Mining Institute offers a prize of $25 each year to a member of the graduating class of the School of Mines. The student must be enrolled in the coal mining option and his scholarship must be the highest of that group as measured by his grade-point average.

West Virginia Oil and Natural Gas Association Prize for Students in the School of Mines. In order to stimulate interest on the part of oil and natural gas engineering students in their profession, the West Virginia Oil and Natural Gas Association offers a prize of $25 each year to a member of the graduating class of the School of Mines. The student must be enrolled in the oil and natural gas option, and his scholarship must be the highest in that group as measured by his grade-point average.

The Charles E. Lawall Award. This award was created in 1952 through the generosity of D. L. McElroy of Pittsburgh and is given in the first semester of each year to the senior student maintaining the best scholastic average in the first 100 hours of the required curriculum. Students in the coal mining option and the oil and gas option are eligible. The award carries a cash payment of $50.

For Students in the School of Nursing

Betty Harris Prize for Freshman Achievement. This cash prize is awarded at the end of the freshman year to the student selected by vote of her classmates and faculty as having been most outstanding during the freshman year.

For Students in the School of Pharmacy

The Koehler Award. This award, sponsored by Tau Chapter of Phi Lambda Upsilon, holds a cash value of $100. It is to be given to a sophomore student majoring in chemistry, chemical engineering, pharmacy, or agricultural science with the following requirements: a 3.5 grade-point average on a minimum of 11 hours of chemistry course work, and a 3.5 grade-point average on total academic record for a minimum of three semesters (not including summer terms).

The Central Pharmaceutical Journal Pharmacy Administration Prize. This is an annual $25 prize awarded to the graduating student with the best grades in pharmaceutical administration.

The Gay H. Dent Prize. Gaylord H. Dent, for many years a successful pharmacist of Morgantown, bequeathed to the School of Pharmacy the sum of $500. The interest on this money is used to maintain the Gay H. Dent Prize, which in some measure typifies the personal traits of the donor. The prize is awarded biennially to the graduating senior who, in the opinion of the members of the senior class, is most likely to succeed in the profession of pharmacy because of a love of service, a genial personality, and natural leadership.

The Gay H. Dent Essay Award. Funds have been provided for awarding $25 to the student of the School who submits the best essay on some pharmaceutical subject during the second semester of each year. A committee of students selects the subject for the essay and judges the entries.

Kappa Psi Junior Scholarship Achievement Award. The local chapter of Kappa Psi, pharmaceutical fraternity, offers an annual award of $25 to the member of the Junior Class having the highest scholastic average during the year. The name of the recipient is inscribed upon the plaque located in the school quarters.

Rho Chi Award. In order to stimulate scholastic ability, Alpha Mu Chapter of Rho Chi, honorary pharmaceutical society, offers an award of $25 to the student of the School receiving the highest scholastic average during the first semester (Rho Chi members to be excluded), the award to be used as partial expense in visiting the pharmaceutical manufacturing concern during the annual visitation.

For Senior Football Squad Members

The 1928 Football Team Scholarship Cup and Prize. Members of the West Virginia University 1928 Football Team established in October, 1959 a prize for the senior football player who has the most outstanding academic record for the first seven semesters in the University. The prize consists of $100 and an engraved cup, to be placed in some appropriate place at the University, with an individual cup to each winner.

ASSISTANTSHIPS AND FELLOWSHIPS

Approximately 65 departmental fellowships and assistantships are available to qualified personnel in several of the University's schools and colleges. In addition, many departments offer part-time employment through a non-salary payroll arrangement. Complete information can be had by contacting the department involved.

LOAN FUNDS

Listed here are all loan funds available to University students. Most of them contain stipulations regarding their use and applicability. They are administered through the office of the Director of Student Affairs, with the cooperation of advisory committees, University officials, and alumni.

For Students in the College of Agriculture, Forestry, and Home Economics

The Baltimore and Ohio Railroad Fund. A special fund for small loans to students in the college has been established by the Baltimore and Ohio Railroad.

The Maude George Memorial Fund. In 1950 Charles A. George of Ronceverte established this fund in memory of his aunt. Eligible University students from Greenbrier and Monroe counties may borrow up to $50 per semester or $100 per academic year, as long as the fund is in effect.

The Heebink Memorial Loan Fund. This fund was established in 1958 in memory of Gerald Heebink, for almost two decades a dairy extension specialist at the University. It is intended to help needy students to get an education in dairy and related agricultural fields.

H. O. Henderson Loan Fund. This fund was established October 10, 1960 (with an initial gift of $2,212.80) by former students, friends, and dairy organizations in recognition of Dr. H. O. Henderson's 41½ years of devoted service to the dairy industry of West Virginia, and is to be used by students majoring in Dairy Science and other allied fields of agriculture. Second semester freshmen, sophomores, juniors, and senior students are eligible.

Ruth D. Noer Loan Fund. In February, 1961, the Ruth D. Noer Loan Fund was established from contributions by Home Economics alumnae and friends of the University to honor the former Director of the Division of Home Economics. Loans are restricted to the use of junior and senior majors in the Division of Home Economics.

For Students in the College of Arts and Sciences

The John M. Crawford and David B. Crawford Loan Fund. In 1951 the Parkersburg Rig and Reel Company established the John M. Crawford and David B. Crawford Loan Fund with an initial gift of $5,000 to assist accredited students seeking a degree in engineering or geology and who have financial need. Loans are available to students who are graduates of West Virginia high schools, and seeking a degree in engineering (preferably petroleum engineering) or geology.

The Lily Belle Sefton Deatrick Student Loan Fund. Established in 1947 by the Campus Club in memory of Lily Belle Sefton Deatrick, former professor of chemistry, this fund provides small loans for students without interest until after graduation. It is administered by the Dean of the College and the Chairman of the Department of Chemistry.

The Social Work Alumni Loan Fund. This fund, totaling $100 at present, was established in 1951 for the benefit of undergraduate or graduate students in the Department of Social Work, irrespective of residence. Loans are made by the Director of Student Affairs with the approval of the Chairman of the department. No interest is required, and loans are to be repaid within two years after the student has completed his current degree objective.

The West Virginia State Conference of Social Work Fund. This fund was established in 1940. It grants loans, without interest, to eligible full-time graduate social work students who are residents of West Virginia. Detailed information is available from the Chairman of the Department of Social Work.

For Students in the College of Commerce

American Bankers' Association Foundation for Education in Economics Loans. This foundation has assigned to the University three scholarship-loans of $300 each. These will be "awarded only to deserving students of integrity, intelligence, character, competency, and aptitude, whose means of support are dependent wholly or in part on their own labor, to enable them to continue the study of courses in banking and economics in classes of junior grade or above. Scholarship of the highest rank will not be a definite requirement for a loan-scholarship award; however, the foundation desires to encourage students who will become leaders in professional or business life and does not wish loan-scholarships granted to mediocre or inferior students." The loans are available to seniors, graduates and special students in the amount of $300 a semester for a maximum of two semesters. An interest rate of 2 per cent will apply, with repayments and interest beginning the second January 1 following graduation.

College of Commerce Student Loan Fund. This fund, established in 1957, is for small loans of short-term nature, and only for students in the College of Commerce. Loans must not exceed $75 and will not be made for terms longer than 90 days. No interest is charged.

Sterling Enterprises Foundation, Incorporated, Scholarship Loan Fund. This consists of a grant of $5,000 to provide 10 scholarship-loans of $500 each ($250 per semester) to students in the College of Commerce and the College of Engineering. Preference shall be given: (1) children or dependents of Sterling Enterprises employees; (2) residents of Monongalia or Preston counties; (3) any student resident of West Virginia if there are no applicants in the preferential categories. In order to qualify

for continued aid, a student must maintain an average of at least 2.5. Loans are to be repaid at the rate of at least $200 per year. If payments are not made on time, then interest of 5 per cent will be added from the due date.

For Students in the School of Dentistry

Oscar W. Burdats Dental Students' Revolving Loan Fund. In 1955 friends of Oscar W. Burdats in the Wheeling area established a student loan fund for dental students at the University in recognition of Dr. Burdats' outstanding leadership in the dental profession for more than 60 years. The fund will be used for loans to worthy dental students who are residents of West Virginia.

The W. K. Kellogg Foundation Dental Students' Loan Fund. This Foundation in September 1958 allotted $15,000 to the University for loans to undergraduate dental students in good academic standing who otherwise might not be financially able to continue their education.

Dental School Student Loan Fund. The first contribution to this fund was made by the Woman's Auxiliary of the West Virginia State Dental Society, in the amount of $400. Undergraduate students of programs under the Dental School Administration will be eligible to receive loans.

For Students in the College of Education

Teachers Training Scholarship Loan Fund. In 1957 the State Legislature created the West Virginia Scholarship Loan Fund for teacher trainees for public purpose of relieving the teacher shortage in schools. In each county there is a selection committee comprised of the County Superintendent of Schools (Chairman) and the Board of Education. Annually, by the first day of May, each county committee shall select and recommend to the State Superintendent of Free Schools for appointment from that county their quota of graduates who are interested in teaching. Each person selected shall rank in the upper third of the members of his or her graduating class, and be a bona fide resident of the county from which selected. Each scholarship loan carries a stipend of $500 for a school year.

For Students in the College of Engineering

Sterling Enterprises Foundation, Incorporated, Scholarship Loan Fund. (See "For Students in the College of Commerce" page 64).

Eta Kappa Nu Loan Fund. This fund is available to Engineering students in good standing. All loans are subject to the conditions specified by the By-Laws of Eta Kappa Nu; namely, that loans must be approved by a committee consisting of members of Eta Kappa Nu, and that loans are interest free until four months after the student leaves the University.

For Students in the School of Journalism

Robert H. Pritchard Journalism Loan Fund. In 1952 Dr. and Mrs. Frank V. Rueckl of Winnemucca, Nev., established a loan fund in memory of Mrs. Rueckl's father, Robert R. Pritchard, a former member of the University Board of Governors and prominent newspaper owner and editor in Weston. This fund of $1,000 is open to use by journalism students who are residents of West Virginia. Loans up to $100 per year may be obtained by a student over four years.

P. I. Reed Journalism Alumni Loan Fund. This fund was started in 1949 by members of the journalism class of 1940 to provide small emergency loans to students majoring in journalism. The fund was raised through contributions of journalism alumni of various classes and named in honor of Professor P. I. Reed, director of the School of Journalism since it was formed in 1939, and formerly head of the Department of Journalism. Loans are to be repaid in one to three months.

For Students in the College of Law

The John W. Davis Fund. This fund was established for the making of loans to outstanding law students, and aids worthy students each year.

For Students in the School of Medicine

John B. Finley Fund. A fund of $1,000 was contributed by the trustees of the estate of John B. Finley of Pittsburgh, in accordance with his will, to be used to make loans to deserving students in the School of Medicine.

The General Loan Fund for Medical Students. This fund was established in 1958 for the general aid of needy and deserving medical students.

The Kellogg Foundation Fund. This foundation in 1942 allotted $5,000 to the University for loans to students of medicine. Loans may not exceed $500 per year. Interest is charged at the rate of 2 per cent. Students may not borrow until after successful completion of one term in the School of Medicine.

Howard T. Phillips Loan Fund. The late Dr. H. T. Phillips of Wheeling set aside in his will a grant of approximately $1,000 for loans to medical students at the University. Dr. Phillips stipulated that loans from this fund should be made to "students who are deserving as well as needy and who are enrolled in the School of Medicine."

Thomas E. Pyles Memorial Loan Fund. This fund was established in 1958 in memory of Thomas E. Pyles, who died during his first year in the School of Medicine. The fund is used for short-term emergency loans.

Dr. E. J. Van Liere Medical Student Loan Fund. This fund was established September 7, 1960 with an initial gift of $10,000, sponsored by the Alumni Association of the School of Medicine and given through West Virginia University Foundation, Inc. It is to be used for the support of students regularly enrolled in the Medical School of West Virginia University, and is planned for meeting long term needs, rather than as an emergency fund. Loans are limited to $600 for one academic year, and $2,400 during the entire course of study.

Fayette County Medical Society Student Loan Fund. This fund was established March 30, 1960 by the Fayette County Medical Society with an initial gift of $2,300, and loans are available to sophomore, junior and senior students of the School of Medicine of West Virginia University. Loans are limited to $500 per year per student. First preferences will be given to students from Fayette County, and third and fourth year students.

For Students in the Division of Military Science and Air Science

R.O.T.C. Loan Fund. This loan fund, which honors the late Col. Samuel B. Roth, professor of military science and tactics from 1950 to 1953, was established in 1956 by a $200 gift from an anonymous donor. It is to be used to make small emergency loans to students in Advanced Army and Air Force R.O.T.C.

For Students in the School of Mines

Central West Virginia Coal Mining Institute Scholarship Loan Fund. This fund provides annually two scholarship loans of $700 per year each. The loans are renewable from year to year, and are repayable on a scheduled basis after graduation.

John M. Crawford and David B. Crawford Loan Fund. (See *"For Students in the Colege of Arts and Sciences"*, page 64, for details of this Fund.)

Monongahela Valley Coal Mining Institute Loan Fund. This institute in 1952 established a loan fund of $1,500 to aid worthy students in the field of coal mining engineering who are residents of Monongalia County. Loans may be made to students beyond their first semester in mining engineering on a short-time basis without interest.

Fred G. and Nannie D. Woods Loan Fund. In 1949 this fund was created by an initial gift of $1,000 from the late Fred G. Wood, a former Raleigh County coal operator. The provisions state that loans shall be made to assist students to receive training in the engineering of coal mines, and that "preference shall be given to students from families engaged in coal mining, or who have grown up in coal mining communities."

Fred G. Wood and Nannie D. Wood Loan Fund No. 2—(Mine Electricians, Raleigh County). This fund was started June 1, 1951 by the late Fred G. Wood with an initial gift of $600, supplemented by one-third of the rental of properties given to

the University by Mr. and Mrs. Wood, and is intended to be used by students in the field of mining who are pursuing courses to train them for the supervision and maintenance of electrical equipment used in coal mines. Preference is to be given to those from Raleigh County.

New River and Winding Gulf Mining Institute Scholarship Loan Fund. In February, 1961, the New River and Winding Gulf Mining Institute established a scholarship loan fund of $4,400 to aid deserving students from Raleigh and Fayette counties, West Virginia, enrolled in the mining engineering curriculum of the School of Mines. Scholarship loans may be made to freshmen, upperclassmen, and graduate students.

For Students in the School of Music

Weldon Hart Memorial Loan Fund. In 1957 a memorial loan fund was established by friends of Weldon Hart, former director of the School of Music. The emergency fund is available to students enrolled in the school.

For Students in the School of Pharmacy

Alfred Walker Fund. This is a special fund for loans to pharmacy students, established in 1938 by Dean J. Lester Hayman in honor of the memory of Alfred Walker of Sutton, first president of the West Virginia Pharmaceutical Association, and for many years secretary of the association.

For Students in Any School or College of the University

Claude Worthington Benedum Scholarship Loan Fund. The Claude Worthington Benedum Foundation in 1952 established this fund with an original gift of $5,000. Additional gifts have been made to the fund from time to time. Deserving students from West Virginia who are in need of financial assistance to complete their educations are eligible for aid from the fund.

The Chauncey Watson Boucher Fund. This fund was established in 1936 by former President C. S. Boucher in memory of his father. Seniors from West Virginia may borrow only for the payment of University fees. Loans must be repaid within two years and are without interest.

Campus Club Loan Fund for Women. Beginning in 1918 the Campus Club established an emergency loan fund for the aid of women enrolled in the University. Small loans for emergency needs are made to women students.

Chimes Loan Fund for Women. Chimes, junior women's honorary, in 1956 established a loan fund for the aid of women students. Loans shall be no less than $10 nor more than $100 and shall be paid in full within the school term. There shall be no interest charged, but a small contribution shall be in order for the purpose of maintaining the fund.

Elizabeth McAllister Crawford and John McLenaghen Crawford Fund. The Consolidated Natural Gas System Educational Foundation in 1950 established this fund with an initial gift of $10,000. Its purpose is to assist students who are without other resources from which their educational needs may be met. To be eligible for this aid, a student must be a graduate of a West Virginia high school, enrolled in a course leading to a degree, and must have completed at least the first semester of the freshman year.

Faculty Emergency Loan Fund. This fund was established in 1954 by an initial gift of $1,000 from A. W. Ramsey, of the Tidy House Products Company of Shenandoah, Iowa. Ramsey, president of the company and a University graduate, established the fund to provide small emergency loans for faculty members at a minimum cost.

The Ira Errett Rodgers 1928 *Football Team Emergency Loan Fund.* This fund was established October, 1959, by the 1928 West Virginia University Football Team members in honor of their coach, Ira Errett Rodgers. This fund is designed to meet emergency needs of the members of the varsity football squad. Loans are to be of small amounts and made for short periods of time only.

Wade Hampton and Hessie Kirk Hampton Memorial Emergency Loan Fund. This fund was established in 1957 by the six children of Wade Hampton and Hessie Kirk

Hampton, and is designed to aid in the form of emergency loans any student who is a citizen of the United States. If applicants are numerous, preference is to be given students whose parents are coal miners or employees in a coal mine.

Helen Sterrett Jones Memorial Loan Fund. This fund of $1,000, established in September, 1959, honors Helen Sterrett Jones, the late wife of Edwin Channing Jones, Professor and Chairman of Electrical Engineering at the University. It was established by former colleagues in Y.W.C.A. and Mortar Board, in which Mrs. Jones was actively interested. Loans are available to deserving women students who show both need and normal academic progress. The fund will be administered by the Committee on Scholarships, Awards, and Student Financial Aids.

Charles E. Lawall Fund. This was established in 1939 for small loans to worthy students, and is available to students whose scholastic record has been satisfactory. Interest is payable only for periods in excess of the time for which the loan is granted.

Leon Leonian Memorial Fund. This fund was established in 1945 and consists of small loans to students for short periods without interest. It honors the memory of Dr. Leon Leonian, former staff member.

National Defense Student Loan Fund. Congress on August 23, 1958 passed the National Defense Education Act. The Act provides for the creation of a University loan fund from which needy undergraduate and graduate students may borrow on reasonable terms for the purpose of completing their higher education. Special consideration in the selection of loan recipients shall be given to students with a superior academic background who express a desire to teach in elementary or secondary schools, and whose academic background indicates a superior capacity or preparation in science, mathematics, engineering, or a modern foreign langauge.

C. R. Orton Memorial Loan Fund. This fund, established in 1955, honors the memory of Clayton R. Orton, former dean of the College of Agriculture, Forestry, and Home Economics. It is available for small emergency loans to any University student.

Raleigh County Alumni Association Loan Fund. This association established a loan fund in 1953 for the aid of students enrolled from Raleigh County. Any regularly enrolled student who has permanent residence in Raleigh County may procure aid from the fund when it is available.

Revolving Emergency Loan Fund. This fund to meet emergencies of University students was established in 1931. The principal amounts to about $5,000. Loans are of small amounts and are made for short periods of time only.

Senior Class Loan Fund. A gift of $100 was given by the 1949 senior class to be used for aid to seniors in the University needing financial assistance. The class of 1950 made an additional gift of $100. Small loans are made without interest.

Service Clubs Loan Fund of West Virginia University, Incorporated. The West Virginia Kiwanis District in 1950 established a non-restricted loan fund for needy University students; and more recently other service clubs also have made donations. This fund is available to any student who is in good standing and is in need of financial help. It is operated on a non-profit basis.

Theodore Smith Fund. In 1930 Theodore Smith, a University student, was drowned. His death disclosed the fact that he was being financed through the University by the late James E. Jones. He had taken out a life insurance policy of $2,000 with Mr. Jones as beneficiary. In deference to the memory of Theodore Smith, Mr. Jones turned the $2,000 over to the University for the establishment of this fund.

Stewart Student Loan Fund. This fund was established in 1958 by the faculty and staff of the University to commemorate Irvin Stewart's 12 years as president of the University. Loans for essential expenses are available to any worthy and needy student. No interest is charged while the student is enrolled, nor for six months thereafter. An interest rate of 3 per cent per year will apply thereafter.

P. C. Thomas Fund. This fund was established in 1943 in memory of the late P. C. Thomas of the Koppers Coal Company. The initial contribution made by the employees of the company was $520.

PART II

ADMISSIONS, FEES, AND ACADEMIC REGULATIONS

Admission To Undergraduate Colleges and Schools

Candidates for admission to the University may be admitted either by examination or on the basis of official transcript of record. Residents of West Virginia, applying for admission on the basis of graduation from a preparatory school with a minimum of 15 units of high school work acceptable to the University, may be admitted by satisfying one of the following requirements:

1. Ranking in the upper three-quarters of the graduating class.
2. Presenting a minimum average of "C."
3. Qualifying for admission to the University on the basis of testing and/or interview.

During the year 1961-62, the American College Testing program will replace the former freshman testing program at the University and will be used for placement and counseling. Beginning with 1962-63, the American College Testing program will be recommended for admission, and required for scholarships, placement, and counseling. Students interested in applying for admission to the University should contact their high school early in their senior year for information with regard to ACT. Students who have not taken ACT prior to their coming to the University will be required to take the tests after they arrive on campus.

The various colleges, schools, divisions, and departments of the University may establish additional admission requirements. Transcripts of secondary school record must be sent by the principal directly to the Registrar of the University. Transcripts must be received at least three weeks prior to the beginning of the term or semester in which the applicant is interested. The transcripts become the property of the University and are permanently filed in the Office of the Registrar.

In accrediting West Virginia secondary schools, the University follows the classification made by the State Department of Education. Applicants who do not have transcripts showing graduation from accredited schools or from colleges or universities previously attended, may be permitted to register provisionally, at the discretion of the Committee on Admissions. If satisfactory transcripts cannot be obtained, the registration will be canceled and the fees returned in accordance with the refund schedule. A provisional registration ordinarily will not be continued for more than a week.

Students who are admitted conditionally must make up all deficiencies before they can be classified as sophomores.

ENTRANCE UNIT DEFINED

Requirements for admission to colleges, schools, and divisions of the University are stated in terms of units.

A unit in any subject represents the amount of work that may be done in a standard high school in a year of thirty-six weeks, with five recitation periods per week, of no less than forty minutes each. In courses in which laboratory work is required, from two to three periods of laboratory work are considered the equivalent of one period of recitation according to the amount of outside preparation required in connection with such work.

Graduates of accredited schools may receive credit for work certified with the understanding, however, that no student may enter any college, school or division until he has credit for 15 units, i.e., the work of the standard four-year college preparatory course.

PRESCRIBED AND ELECTIVE UNITS

A. Graduation from high school and fifteen units of high-school work acceptable to the University are required for admission.

B. The following groups are required:
(1) Four units in English[1]
(2) Three units in a second subject
(3) Two units in each of two other subjects

C. The work in "A" must include the following:

For admission to all colleges and schools, 1 unit in elementary algebra.

For admission to the College of Agriculture, in the case of students who elect agriculture or forestry as their major field of study—1 unit in elementary algebra and 1 unit in plane geometry.

For admission to Agricultural Engineering—1 unit in elementary algebra, ½ unit in intermediate algebra, 1 unit in plane geometry, and ½ unit in solid geometry.

For admission to the College of Arts and Sciences, in the case of students who intend to elect chemistry, geology, mathematics, physics, predental, premedical or premedical technology studies as their major field of study—1 unit of elementary algebra and 1 unit of plane geometry.

For admission to the College of Engineering or the School of Mines, prospective students must be qualified for admission to the University, present credit for 2 units of algebra and 1 unit of geometry (1 unit plane geometry or 1 unit integrated geometry or ½ unit plane geometry and ½ unit solid geometry).

Students having two units of algebra may take an entrance examination in Math. 3, College Algebra, and by passing this examination be excused from Math. 3. Freshmen entering the College of Engineering with ½ unit of trigonometry in addition to the above required units may take an entrance examination in Math. 4, Trigonometry. Students passing this examination will be excused from Math. 4.

Until September 1, 1963 students will also be admitted to the College of Engineering with 1½ units of algebra, 1 unit of plane geometry, and ½ unit of solid geometry.

D. Work in the following subjects not to exceed the number of units placed after each subject will be accepted:

Subject	*Units*
English	4
Journalism	1
Speech	1
Foreign Languages[2]	
French	3
German	3
Greek	3
Italian	3
Latin	4
Spanish	3
Mathematics	
General	1
Algebra	2
Plane Geometry	1
Solid Geometry	½
Trigonometry	½
Drawing	
Free-hand drawing	1
Mechanical drawing	1
Aeronautics	1
Art	1
Education	2
Music	2
Health	1
Physical Education	1

Subject	*Units*
Science[3]	
Botany[4]	1
Biology[4]	1
Chemistry	1
General Science	1
Geology	1
Physical geography	1
Physics	1
Physiology	½
Zoology[4]	1
Social Studies[5]	3
History	3
Social Studies	3
Vocational Subjects (not to exceed five units)	
Agriculture	4
Home Economics	3
Industrial training	3
Bookkeeping, or bookkeeping and commercial arithmetic	2
Commercial arithmetic (alone)	½
Commercial law	½
Shorthand	2
Typing	1

ADVANCED STANDING EXAMINATION

Application for advanced standing on work of college grade for which college credit cannot be established on the basis of official transcript of record, should be made to the Registrar of the University not later than two weeks after the applicant's matriculation. Upon payment of the proper fee the Registrar will issue an examination permit. After examination, the department will report to the Registrar the University courses, if any, which the applicant is entitled to credit.

PHYSICAL EDUCATION GENERAL PROGRAM

All students entering the University with less than 58 semester hours of college credit are required to complete certain courses in physical education, unless previous credit is allowed. All men students take two hours of physical education courses, Phys. Educ. 1 and 2, during their first year of residence. All women students take four hours of physical education courses, selected with the adviser's approval from Phys. Educ. 3-25, during their first two year's of residence. Upper-division women students who wish to elect a Physical Education course or who have not completed the physical education requirements should select Phys. Educ. 101 or Phys. Educ. 102.

Each student who is required to register for physical education is given a complete medical and physical examination at the beginning of the University school year to determine his fitness for active participation in University activities of any description.

VETERANS

The University recognizes that men and women from the Armed Forces who enter college require individual and personalized guidance in order to facilitate their entrance and to aid their adjustment to University life. The Veterans' Coordinator is available for consultation and help in the solution of personal problems which may arise in the transition to civilian student life.

Information regarding educational opportunities made possible at the University through provisions of the Service Men's Readjustment Act of 1944 (G.I. Bill of Rights), Public Law 550, and the Vocational Rehabilitation Program of the Veterans Administration (Public Law 16), and the War Orphan's Educational Assistance Act of 1956 (Public Law 634) may be obtained from the Veterans' Coordinator by personal conference or by mail.

Veterans may be admitted to the University by the Committee on Admissions by any of the following methods:

1. Graduation from an accredited preparatory school.
2. Presentation of 15 units of high-school work without graduation.
3. Advanced standing from other accredited colleges or universities.
4. Evidence of sufficient maturity and ability to do college work furnished by the use of United States Armed Forces Institute tests. Training of any kind

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[1]A student may enter the University with 3 units in English and satisfy admission requirements by making a satisfactory grade on the English Placement Test, or by successfully completing English O, or English 1.

In the College of Engineering, the School of Mines, and the Department of Agricultural Engineering, a student may enter with only 3 units in English if he also presents for entrance 2 units in one foreign language.

[2]One unit of Latin will be accepted. No less than 2 units of either French, German, Greek, Italian, or Spanish will be accepted unless sufficient additional work in that language is taken in college to complete a minimum of 2 units.

[3]A group of 2 or 3 units in science may be made by combining one unit each of any two or three of the following: biology, botany, chemistry, geology, physics, and zoology.

[4]If a student presents one unit in biology for admission, he may have credit for no more than ½ unit in either botany or zoology.

[5]A group of 3 units may be formed by combining 2 units of history with one unit of social studies, or by combining one unit of history with two units of social studies.

received in the service will be considered, and, if possible, evaluated for entrance or college credit.

5. Veterans who present at least 9 units of entrance credit may be admitted as special students.

An honorably discharged veteran of the armed forces of the United States with a minimum of one year active duty shall be exempted from any additional work in Basic Military and in the Physical Education general program on submission of due proof thereof to the Registrar. Students with six months but less than one year service are exempted from taking the first year of Basic Military. Scholastic hours credit will be allowed for military training for which a student is exempted.

DIVISION OF MILITARY SCIENCE AND AIR SCIENCE

Requirements

West Virginia University, a beneficiary of the Act of Congress of 1862, offers in time of peace four-year courses of instruction in Military Science and Air Science. Normally successful completion of one of these courses and degree requirements leads to a commission as Second Lieutenant in the United States Army Reserve, or the United States Air Force Reserve. Distinquished Military Graduates of West Virginia University may apply for and be offered commissions as second lieutenants in the Regular Army or the Regular Air Force, under conditions prescribed by law.

The course comprises two years of basic training (Military Science 1, 2, 3, and 4, or Air Science 1, 2, 3, and 4), two years of advanced training (Military Science 105, 106, 107, 108, or Air Science 105, 106, 107, and 108), and summer camp for six weeks' duration for Military Science students and four weeks' summer training for Air Science students during the summer following the junior year. The Army summer camp and Air Force summer training is conducted at government expense, and eligible students are paid approximately $75.00 monthly in addition to traveling expenses at the rate of 5 cents per mile.

All male students not specifically exempt by provisions of the appropriate paragraph below are required by Chapter 18, Article 11, of the official Code of West Virginia, and by orders of the Board of Governors of the University, to complete satisfactorily the entire basic course as prerequisite to graduation from the University.

Within deferment quotas established by Public Law 758, 80th Congress, qualified and selected enrolled students are offered the opportunity of being deferred by the Professor of Military Science or the Professor of Air Science from military service under the Selective Service Act of 1948 and Selective Service Extension Act of 1950, as amended by the Universal Military Training and Service Act, November, 1951, as amended, until completion of their military courses and receipt of their Baccalaureate Degree. Such deferment is subject to cancellation should the student not be selected for the advanced course, fail to remain in good standing, or fail to develop the qualities expected of an officer.

Curriculum

Basic Course: Instruction is given for three hours per week throughout the four semesters of the freshman and sophomore years. Two hours' credit is allowed for each semester's work.

Advanced Course: The third and fourth years of instruction in Military Science or Air Science comprise the Advanced Course and correspond to the junior and senior years of the student's academic course. Entrance into the Advanced Course is elective on the part of the student and selective on the part of the services. Selection is based on the student's record and on service regulations and is limited in total numbers to yearly quotas. Application for the Advanced Course should be made at the beginning of the second semester of the student's sophomore year.

Each student who is enrolled in the Advanced Course agrees to complete the course including the summer camp and, if tendered, accept a commission in a reserve component as prerequisites for his graduation from the University unless excused by proper authority.

Advanced Course students (Air Force) may be permitted to substitute University courses in the general field of Political Science for portions of the Senior Air Science curriculum.

Senior Air Science students enrolled in Category I (Pilot) are required to participate in the Flight Instruction Program. This program consists of 35 hours of ground instruction and 36½ hours of dual and solo flight instruction for the private pilot's license. The 35 hours of ground instruction is included in the junior and senior curriculum. There is no additional fee for this program.

Courses of instruction are listed on pages 174-175.

Allowances

The Advanced Army and Air Science student is paid a commutation of subsistence allowance of approximately 90c per day or $27.00 per month. The Army ROTC student is paid monthly and the Air Science Advanced cadet is paid quarterly. In addition, uniforms, equipment and military or air science textbooks are issued to all Military or Air Science students.

Military Deposit

Each student is financially responsible for all government property he is issued. A deposit of $20 will be given to the Comptroller at time of registration to cover any loss or damage to Government property while in his possession. The deposit, less a nominal administrative charge, will be refunded upon return of the undamaged property.

Exemptions

The following students will not be required to enroll in the Division of Military Science and Air Science, but may elect to do so with the approval of the Professor of Military Science or the Professor of Air Science:

(1) Those who are not citizens of the United States.
(2) Those who, at time of entrance, are more than 23 years of age, and former students over that age who re-enter the University after an absence of three years.
(3) Graduate students.
(4) Students who are taking only short courses, the special interim courses, or extension work.
(5) Transfer students who at the time of matriculation have established 58 semester hours with the Registrar of the University.
(6) Students who have successfully completed the two-year basic Army, Navy, or Air Force ROTC course at any institution maintaining a Senior Division unit. Those who have satisfactorily completed one, two, three, or four semesters of ROTC training in a senior division will be allowed comparable hours credit and exemption from comparable military training.
(7) Students who are unable to perform military duty for physical reasons.

Students who have had previous training, other than in a senior division ROTC unit, will be allowed exemption from military training as determined by the Professor of Military Science, or the Professor of Air Science, and the Registrar. No credit will be given in Air Science for Junior Division ROTC. Scholastic hours credit will be allowed for military training for which a student is exempted. Students applying for entrance who have had previous ROTC training should request the institution where such training was received to submit the pertinent ROTC student's records to the University, prior to the date of registration.

Students with more than one year of previous honorable active service in one of the armed forces are exempted from taking basic military training (i.e., Military or Air Science 1, 2, 3, 4). Students with six months but less than one year's active service are exempted from taking the first year of Army basic training. Scholastic hours credit will be allowed for military training for which a student is exempted. Note Courses of Instruction pages 174-175) for requirements for Advanced Military Science and Air Science.

Exemptions will be determined by the Director of the Student Health Service (physical exemptions), and the Professor of Military Science or the Professor of Air Science, who will notify the Registrar and the student's adviser.

Organization

The Division of Military Science and Air Science and the conduct of military science and air science instruction is the responsibility of the Professor of Military Science and the Professor of Air Science, who together with their military staffs, are officers and non-commissioned officers of the Army and the Air Force on duty at West Virginia University.

Reserve Officers Training Corps Bands

There is an Army ROTC Band and an Air Force ROTC Band. Membership is restricted respectively to basic Army and Air Force ROTC students. Assignment to one of the bands is determined by audition before the Director of the Band.

SPECIAL STUDENTS

Persons who do not desire to become candidates for a degree may, by permission of the Committee on Admissions and the dean of the college which they desire to enter, be admitted as special students, subject to the following provisions:

1. Special students must be twenty-one years of age or veterans of the armed forces.

2. Special students must satisfy at least 9 units of the requirements for admission, including 2 units of English.

3. Every application for admission as a special student must be presented in writing to the Committee on Admissions and must set forth fully the applicant's reason, together with a detailed statement of studies he desires to pursue.

4. Special students are subject in all respects to the usual rules relating to registration and scholarship. They may be assigned to classes for which they apply, it being understood, however, that admission to any class rests entirely with the instructor in charge, and further, that admission to any class when so granted does not necessarily imply credit for prerequisites.

CREDIT ACCEPTED FROM A JUNIOR COLLEGE

The maximum credit accepted from a junior college accredited by the North Central Association of College and Secondary Schools or other regional accrediting association will not exceed seventy-two (72) semester hours, and credit will be allowed for lower-division courses only. No credit will be allowed for courses completed in a junior college subsequent to attainment of junior or higher rank by the student at the University.

ADMISSION TO THE GRADUATE SCHOOL

Applicants holding baccalaureate degrees from West Virginia University or from other accredited institutions may be admitted to the Graduate School. Applications for admission must be filed with the Registrar of the University, who will keep a copy and forward the original applications to the Dean of the Graduate School. The applicant must request the registrar of the college or school previously attended to send an official transcript directly to the Registrar. The applications and transcript should be received by the Registrar at least one month in advance of registration days. Application forms may be obtained from the Registrar.

Admission to the Graduate school does not constitute acceptance of the student by the major department of his choice. It merely grants the student permision to seek admission to the department. It is the responsibility of the student to make this contact at once to determine if he will be accepted by the department.

Undergraduate deficiencies, generally unsatisfactory background, or lack of adequate facilities in a given department may prevent acceptance by the department. In such instances, the student either must seek acceptance by another department or register as a "special" student. A "special" student is not a candidate for an advanced degree.

The Dean of the Graduate School and the Chairman of the department in which the student desires to do his major work will advise him concerning departmental prerequisites for admission, candidacy for an advanced degree, and major and minor advanced degree requirements.

Eligible students who wish to further their education without reference to higher degrees may be admitted to the Graduate School and may elect courses for which they can satisfy the prerequisites.

More complete information is available in the *Announcements of the Graduate School.*

Graduate Degrees

Graduate degrees offered by departments in the University which have been approved for graduate work are:

Master of Agriculture (M.Agr.)
Master of Arts (A.M.)
Master of Business Administration (M.B.A.)
Master of Home Economics (M.H.E.)
Master of Music (Mus.M.)
Master of Science (M.S.)
Master of Science in Engineering (M.S.Eng'g.)
Master of Science in Aeronautical Engineering (M.S.A.E.)
Master of Science in Agricultural Engineering (M.S.Agr.E.)
Master of Science in Chemical Engineering (M.S.Ch.E.)
Master of Science in Civil Engineering (M.S.C.E.)
Master of Science in Electrical Engineering (M.S.E.E.)
Master of Science in Industrial Engineering (M.S.I.E.)
Master of Science in Mechanical Engineering (M.S.M.E.)
Master of Science in Mechanics (M.S.Mech.)
Master of Science in Engineering of Mines (M.S.E.M.)
Master of Science in Nuclear Engineering (M.S.N.E.)
Master of Science (Home Economics Education) M.S. (H.E.Ed.)
Master of Science in Journalism (M.S.J.)
Master of Science in Library Science (M.S. in L.S.)
Master of Social Work (M.Soc.Wk.)
Doctor of Philosophy (Ph.D.)
Doctor of Education (Ed.D.)

Professional Degrees

The following professional degrees are conferred upon graduates of the College of Engineering and the School of Mines on the basis of practical experience and study in absentia, the presentation of a thesis, and an oral final examination.

Aeronautical Engineer (A.E.)
Chemical Engineer (Ch.E.)
Civil Engineer (C.E.)
Electrical Engineer (E.E.)
Mechanical Engineer (M.E.)
Engineer of Mines (E.M.)

SPECIAL REQUIREMENTS FOR ADMISSION

General

Transcripts of college or university records must be sent by the registrar of the other institution directly to the Registrar of the University. All applicants for transfer must present an average based on all work attempted at other institutions of higher education equivalent to a West Virginia University average of "C" (2.000) or higher. The various colleges, schools, divisions, or departments of the University may establish additional requirements for transfer.

The College of Commerce

Applicants seeking admission to the College of Commerce for the purpose of obtaining a degree must have earned at least 58 semester hours of required and approved elective courses in the lower-division curriculum at a grade average of not less than "C."

The School of Dentistry

In order to be considered for admission to the School of Dentistry, the applicant must be a graduate of an accredited high school with fifteen units of entrance credit which shall include four units of English, one unit of elementary algebra, and one unit of plane geometry.

Applicants for admission must present evidence of having completed successfully two full academic years (60 semester or 90 quarter hours) of work in the liberal arts in an accredited college based on the completion of the prescribed four year high school course. All science courses shall include both lecture and laboratory instruction. The college courses shall include not less than six semester hours credit each in English Composition and Rhetoric, Biology (preferably zoology), in physics, in inorganic chemistry and in organic chemistry. Credits earned in physical education and military science will not be considered.

A dental aptitude testing program is sponsored by the Council on Dental Education of the American Dental Association and approved by the American Association of Dental Schools. Applicants for admission to the School of Dentistry are required to take the aptitude tests and to submit the resulting scores. The scores achieved on these tests will be considered as a factor in the selection of students. The tests may be taken in any one of the forty-six dental schools, or any one of forty testing centers set up in colleges and universities throughout the United States. Information concerning the places, and the dates on which the tests will be given, may be obtained from the Secretary of the Council on Dental Education, care of the American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

A personal interview with the Committee on Admissions is required. Interviews will be at the Medical Center, West Virginia University, and will be arranged as far as possible, to suit the convenience of the applicant.

Good physical and mental health are essential for the successful study and practice of dentistry. Good eyesight is particularly important. The applicant who is admitted to the School of Dentistry must present on or before the day of enrollment, a certificate from his opthalmologist stating the condition of his eyes, and if any correctible defects in vision exists he shall present evidence that proper corrections have been made.

A deposit fee of twenty-five dollars is required when the applicant accepts offer of admission. This amount will be applied as part-payment of tuition fee when the applicant registers for the first semester. The deposit will be forfeited if the applicant fails to register.

Further details concerning requirements of the School of Dentistry may be obtained by writing to the Assistant Registrar, Medical Center.

The College of Education

Requirements for admission to the College of Education shall be the completion of 58 semester hours of approved college work, with an average of at least 2 grade

points per credit hour on all work attempted. Candidates for a Bachelor's Degree in Education register for their first two years of work in the College of Arts and Sciences. Freshmen and sophomores who expect to enter the College of Education will indicate their intention when they register. Their studies will be directed by advisers for pre-education students. Such students should so arrange their courses of study as to satisfy requirements for junior standing and should be fulfilling requirements for the certification of teachers.

The College of Engineering and the School of Mines

In order to transfer from another college, school or university, an applicant must meet the following requirements:

1. The applicant must have a grade-point average of 2.000 or higher for all college level courses (English 0, Mathematics 0, Mathematics 1, Mathematics 2, and Mathematics 7 count for entrance only).
2. The student must have a grade-point average of 2.000 or higher for all mathematics courses excluding only Mathematics 0 and Mathematics 1.

The School of Journalism

A candidate seeking admission to the School of Journalism for the purpose of obtaining a degree must have satisfied requirements for admission to one of the University undergraduate colleges and must have earned at least 58 semester hours of college credit. A student deficient in the physical education service program and military science will be required to take these subjects as soon as possible. During his freshman and sophomore years he should have completed satisfactorily all or most courses specified for prejournalism majors. A prejournalism student not maintaining at least a "C" average during his first two years in all college subjects must apply directly to the School of Journalism Committee on Scholarship for admission to the School.

The College of Law

Application forms may be obtained from the Registrar. Every applicant for admission must request the proper registrars to send directly to the Registrar at least one month prior to registration a complete transcript of record in every college or university atended. Evaluation of credentials is made by the Registrar.

No applicant will be admitted who previously shall have attended another law school and who shall be ineligible to return to that school in good standing. No applicant will be admitted who has been convicted of a crime which is ground for the annulment or suspension of a license to practice law in West Virginia.

All candidates for the degree of Bachelor of Laws must present a baccalaureate degree from an institution of approved standing. Any degree from such an institution will be regarded as satisfying the requirements for admission provided that, in the opinion of the Scholarship Committee of the College of Law, the degree satisfies the entrance requirements of the Association of American Law Schools.

Beyond the general requirement as to acceptable credits, the College of Law does not prescribe the courses which must be presented for admission. It is essential, however, that a student, before entering upon the study of law, should have a thorough grounding in English, particularly English composition. A student will not be graduated with the degree of Bachelor of Laws if he is markedly deficient in the use of English; and if it appears upon his written examinations that he is seriously handicapped in this regard, he will be required to correct the deficiency before he is permitted to continue in the College of Law. A student should also have a comprehensive grounding in history, particularly American History and constitutional history, and in general, in enough of the social sciences and humanities to give him a broad informational and cultural background and to develop in him a disciplined reasoning faculty. It is desirable to include some courses in mathematics accounting, economics, and Latin. The individual needs of the student, however may well be considered and it is therefore inadvisable to lay down fixed rules.

Applicants for admission to advanced standing must satisfy the ordinary requirements for admission to the first-year class, must have successfully pursued the study of law in a school which if in the United States is a member of the Association of American Law Schools, and must have received credit for courses equivalent to those required of students in the College of Law. Such applicants must have received an average of "C" or its equivalent on all work taken at such other law school or law schools. The extent of credit allowed for work done elsewhere is determined by the Scholarship Committee. A student will not be allowed credit, however, for work carried in another law school unless the student received thereon a grade of "C" or its equivalent.

The School of Medicine

In addition to high school requirements, the applicant for admission to the School of Medicine must have credit for at least three years of work in a college of recognized standing. This must include 90 semester hours of credit exclusive of military science and physical education.

The 90 hours of credit include the following subjects and hours: English composition, 6 hours; physics, 8 hours; biological sciences, 12 hours (mainly zoology and comparative anatomy); chemistry, 20 hours (including 6 hours organic); psychology, 3 hours; a modern foreign language, 12 hours (German or French preferred); Latin, 6 hours recommended if no high school Latin has been taken.

Selection of Students

The number of students the medical school can accommodate is strictly limited. Applications for admission are considered by the Committee on Admission of the School of Medicine, which selects those with the highest qualifications of scholarship and personal fitness. An important factor is the score of the applicant in the Medical College Admissions Test sponsored by the Association of American Medical Colleges and given at suitable times. Students should consult premedical advisers about this test or should write to Educational Testing Service, P. O. Box 592, Princeton, New Jersey. Applications for admission may be made as much as a year in advance of the opening date.

Further details concerning admission requirements of the School of Medicine may be obtained by writing to the Assistant Registrar, Medical Center.

The School of Music

Students who meet University entrance requirements are admitted to the School of Music provided they pass the freshman music talent tests to the satisfaction of the examining committee, and meet the Applied Music entrance requirements as set forth in the published *Announcements* of the School of Music.* All students will be examined at least twice a year, in January and in May, to determine the progress made.

Students transferring to the School of Music from other colleges and schools will be required to present a minimum average of 2.0. Exceptions may be made in the case of first-semester freshmen.

In the School of Music special provision may be made to permit talented individuals to take work in Applied Music without credit.

Advanced standing in applied music is given only by examination. Persons desiring such standing should enroll at the beginning of the semester, and after they have become thoroughly familiar with the requirements for each semester's work, they may apply to the Registrar for a special examination in which they may prove their ability to meet the requirements as outlined.

The School of Pharmacy

In addition to high school requirements, the applicant for admission to the School of Pharmacy must have credit for at least two years of work in a college of

**Announcements* may be obtained by writing the Dean of the School of Music

recognized standing. Application for admission should be made as soon as possible after February 1st for consideration of admission for the following September. Applications will be reviewed periodically after receipt, and the earliest acceptances will probably be issued in March or April. The number of students the School of Pharmacy can accommodate is strictly limited.

The two-year pre-pharmacy requirement for admission to the professional curriculum of the School of Pharmacy follows:

Algebra	3 hr.	English Composition	6 hr.
Biology	8 hr.	Physics	8 hr.
Chemistry, General	8 hr.	Public Speaking	3 hr.
Chemistry, Qualitative	4 hr.	Trigonometry	3 hr.
Chemistry, Quantitative	3 hr.	Electives	10 hr.
Economics	6 hr.		

These requirements total 62 semester hours exclusive of Military Sience or Air Science and Physical Education. The Electives may be selected from the following groups, not to exceed the amounts indicated.

		Not more than
Group 1. *Not to exceed 8 hours*	History	6 hr.
	Humanities	8 hr.
	Political Science	6 hr.
Group 2. *Not to exceed 6 hours*	American Literature	6 hr.
	English Literature	6 hr.
	Language	6 hr.
Group 3. *Not to exceed 6 hours*	Business Law	3 hr.
	Government and Business	3 hr.
	Money and Banking	3 hr.
	Principles of Advertising	3 hr.
Group 4. *Not to exceed 6 hours*	Art	3 hr.
	Music Appreciation	3 hr.
	Philosophy	6 hr.
	Photography	3 hr.
	Psychology, General	3 hr.
	Sociology	3 hr.

NOTE: Upon petition to the Committee on Admissions, modifications of the recommended electives may be approved.

Further details concerning admission requirements of the School of Pharmacy may be obtained by writing to the Assistant Registrar, Medical Center.

REGISTRATION

Persons not registered as University students and who are not members of its administrative or teaching staffs shall not be admitted to regular attendance in University classes.

All students are expected to register on days set apart for registration at the beginning of each semester or term of the University. All freshmen are required to take intelligence, placement, mdical, and physical tests.

Immediately after the completion of their registration, all students are expected to pay their fees at the Comptroller's desk in the Field House.

Late Registration

No student will be permitted to register in the University after the eighteenth day of a semester or the ninth day of either term of the Summer Session, without the special permission of the dean of the college or the school which he proposes to enter. No student registering late will be permitted to enroll for more hours of work than the number of weeks in actual attndance without the permission of the Committee on Scholarship of the college or school concerned.

Visitors

Full-time University students may attend classes as visitors, provided they obtain the written permission of their advisers and of the instructors in classes they desire to visit. Members of the administrative or teaching staffs, or other regular employees of the University, may attend classes as visitors provided they obtain written permission of the chairmen of their departments and of the instructors in the classes which they desire to visit.

No record is kept of the work and attendance of persons admitted to classes as visitors and no credit is given for their work in such classes.

Persons eligible to attend classes in the University as visitors may obtain the proper blanks from the Registrar.

Auditors

Students may enroll in courses without working for grade or for credit by registering as auditors and by paying full fees. Credit or audit status must be indicated at the time of registration. *No change in status from audit to credit or from credit to audit will be made at any later date.*

Fees and Expenses

All University fees are subject to change without notice.

FEES

All fees are due and payable at the Comptroller's desk in the Field House on the days of registration. Fees paid after registration must be paid at the Comptroller's Office in the Administration Building. Students registering pay the fees shown on page 84 plus special fees and deposits as required. Students who have not paid their fees before the close of office hours of the second Saturday following the opening of a semester or a summer term shall be dropped from the rolls of the University, and the Registrar shall notify instructors that their class cards are to be withdrawn. All students failing to present bills for fees to the Comptroller prior to the time indicated in the preceding sentence shall be assessed a late payment fee of $10. The second Saturday following the opening of a semester is the end of the first refund period. The second Saturday following the opening of a summer term is the end of the refund period.

By order of the Board of Governors, no degree will be conferred upon any candidate prior to payment of all tuition, fees, and other indebtedness to any unit of the University.

Remission of Fees

No tuition or fees, except those payable to State special funds or those charged to special services, shall be charged or collected by the University from any student registered in the Graduate School or the College of Law while such student is employed by the University on a regular appointment. Exemption does not include examination fees, graduation fees, and flight fees. The appointment referred to must be effective from the beginning of the semester or summer term involved. Exemption on appointment must be claimed at the beginning of the registration period. In case of late appointment, exemption must be claimed within ten days after the appointment. Any such student who has held a regular University appointment for the second semester shall also be entitled to exemption from these fees for the Summer Session immediately following his term of appointment.

Students on regular University appointment who are registered in the Graduate School or the College of Law for twelve credit hours or more in any semester, or for five credit hours or more in any six-week summer term, and who qualify for remission of fees, are not subject to the fees payable to State special funds. They are not entitled to the services provided thereby without payment of the appropriate additional fees

The wife (or husband) of any person employed by the West Virginia University Board of Governors for a faculty position with the rank of instructor or above, or for a research position of equivalent rank, or as the administrative head of a University division, or as an assistant administrative head, shall be charged the same fees as resident students. The dependent children of the person so employed shall also be charged the same fees as resident students.

Special Fees

Late-registration fee (non-refundable)[6]	$ 10.00
Graduation fee[7]	10.00
Professional Engineering degree (including $10 graduation fee)	25.00
Student's record fee[8]	1.00
Certificate in Home Economics	2.00
Associate in Arts Degree	2.00
Special extra fee for flight training:	
A.E. 171	100.00
A.E. 172	100.00
A.E. 173	100.00
A.E. 175	100.00
A.E. 176	100.00
A.E. 177	100.00
Fee for change in registration (after 8th day)	1.00
Fee for examination for entrance credit, per unit	1.00
Fee for examination for advanced standing	3.00
Fee for General Education Development tests (high-school level)[9]	15.00
Social Work certificate	2.00
Fee for reinstatement of students dropped from the rolls	3.00
Fee for examination of candidates for graduate degree[10]	1.00
Diploma replacement fee	5.00
Physical Education Student Activity Fee	5.00
Student Identification Card Replacement Fee	1.00
Correspondence Course in Guided Reading (per course)	1.00

Fee for Extension Work

A fee of $12 per semester hour is charged for each extension course.

Fees for Undergraduate and Graduate Music Students

I. Full-time students:

A. Registered for Bachelors' or advanced degrees in Music or the Supervisory Training Program (in music):

1. Resident students ..... $115.00 per semester
2. Nonresident students ..... $280.00 per semester

B. Registered in other colleges or schools, including the Graduate School, except as noted above in "A":

1. Class courses in Music, the regular fee for the college or school in which registered with no additional fee.

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[6]This fee is not charged to students who complete registration during the regular registration days as set forth in the University Calendar. This fee was effective September 1, 1960.

[7]The graduation fee is payable by all students at the beginning of the semester or term in which they expect to receive their degrees.

[8]One transcript of a student's record is furnished by the Registrar without charge. This fee is charged for furnishing an additional transcript.

[9]If the applicant applies for admission to and registers in the University within twelve months of the date for his qualifying for the test, a ten dollar credit shall be established for him.

[10]For graduate students not otherwise enrolled at time of final examination

2. Applied Music, the regular fee for the college or school in which registered plus Music fees as follows:
   a. Band and orchestra instruments, voice, piano, organ[11] $20.00
   b. Applied Music Classes in band and orchestra instruments, piano, voice .....$ 5.00

   Ensemble: Chamber music, accompanying .....$ 5.00

II. Part-time students:

A. Class courses in Music at the respective fee per credit hour (for resident students. $8 per semester hour; for nonresident students, $20 per semester hour).

B. Applied Music along with at least one other class course, the fee for the Applied Music shall be the respective fee per credit hour plus Music fees as follows:

	LESSONS PER WEEK	
	One	*Two*
1. Band and orchestra instruments, voice, piano, organ	$20	$35
2. Applied Music Classes in band and orchestra instruments, piano, voice	$5.00 per semester	
3. Ensemble: chamber music, accompanying	$5.00 per semester	

C. *Only* courses in Applied Music, the fee shall be the respective fee per credit hour plus Music fees as follows:

	LESSONS PER WEEK	
	One	*Two*
1. Band and orchestra instruments, voice, piano, organ	$27	$39
2. Applied Music Classes in band and orchestra instruments, piano, voice	$5.00 per semester	
3. Ensemble: chamber music, accompanying	$5.00 per semester	

Piano and Pipe-Organ Practice:

(a) Piano for practice—one hour a day, $6 per semester; two hours, $10; three hours, $14, four hours, $18.

(b) Pipe-organ practice—one hour a day, $10 per semester.

(c) Band and orchestra instruments—rental fee $2.50 per semester.

Summer Session Fees[12]

	Resident	*Nonresident*
Health Service fee, per term	$ 2.00	$ 2.00
Mountainlair fee, per term	1.50	1.50
Cultural Program fee, per term	.75	.75
Student Union Building fee, per term	1.00	1.00
Tuition, per semester hour (except Dentistry and Medicine)	8.00[12]	12.00[12]
Tuition, per semester hour Dentistry and Medicine	12.00	20.00

[11]Maximum, one lesson per week.

[12]The maximum tuition fee for West Virginia residents shall not exceed $40.00 for the Summer Session. The total Registration Fee collected from any student during the Summer Session shall not exceed $40.00.

Deposits

The deposits required are: breakage deposit in chemistry, $7 or $12; breakage deposit for students enrolled in medical technology courses and in the School of Medicine, $10; for students enrolled in other colleges and schools of the University electing courses in medical technology or medicine, $5 for one laboratory course and $10 for more than one course; air or military science deposit, $20; breakage deposit in dentistry, $10; and nursing, $12. Students enrolled in certain courses in Pharmacy, Medical Technology, Medicine, or Dentistry must pay a microscope rental fee of $20.00 per semester.

Semester Fees (See Page 84)

A part-time student (graduate or undergraduate) enrolled for courses in two or more colleges and schools shall pay fees at the rate per semester hour effective for the number of hours in each college and school.

If the student (graduate or undergraduate) is enrolled for 12 or more hours in courses offered by two or more colleges and schools, but less than 12 in any one, he shall be considered to be a full-time student and shall pay the fees for special services (Athletics, Health Service, Mountainlair, Cultural Program, and Student Union Building) in addition to the part-time rates per hour for courses in each college and school.

If the student (graduate or undergraduate) is enrolled for 12 or more hours in courses offered by colleges and schools in Group I, he shall pay the full-time rate effective for Group I. (Does not include Flight Training. Does not include Applied Music for students who are not candidates for degrees in Music.) This student shall pay the part-time rate for any courses in colleges and schools in Group II and Group III.

If the student (graduate or undergraduate) is enrolled for 12 or more hours in courses offered by colleges and schools in Group II, he shall pay the full-time rate effective for Group II and may elect courses in colleges and schools in Group I at no additional cost or may elect courses in colleges and schools in Group III at the part-time rate effective for Group III. (Does not include Applied Music or Flight Training.)

If the student (graduate or undergraduate) is enrolled for 12 or more hours in courses offered by colleges and schools in Group III, he shall pay the full-time rate effective for Group III and may elect courses in Group I or Group II at no additional cost (Does not include Applied Music or Flight Training.)

Refunding of Fees

A student who officially withdraws from the University may arrange for a refund of fees by submitting to the University Comptroller evidence of approval of the refund by the Registrar.

To officially withdraw a student must apply to the Registrar for permission. Semester fees will be returned in accordance with the following schedule:

	Amount of Refund
During the first and second weeks	50% of Athletics Fee, Health Service Fee, Mountainlair Fee, Student Union Building Fee, and Cultural Program Fee, all chargeable to Special Services; and all other semester fees less $2.50. (Under no circumstances is the amount retained less than $2.50).
During the third and fourth weeks	50% of Athletics Fee, Health Service Fee, Mountainlair Fee, Student Union Building Fee, and Cultural Program Fee, all chargeable to Special Services; and 80% of all other semester fees.

SEMESTER FEES IN THE COLLEGES AND SCHOOLS

(See footnotes 13, 14, 15, 16, and 17)

	Full Time		Part Time (Per Semester Hour)	
	Resident	Nonresident	Resident	Nonresident
GROUP I Agr., For., Home Econ. Arts and Sciences Commerce Education Engineering Journalism Mines Music Physical and Health Education, Recreation, and Safety	$65.00* plus new Registration Fee of $50.00, imposed by law, effective June 1, 1959.	$230.00* plus new Registration Fee of $50.00, imposed by law, effective June 1, 1959	$4.00 plus $4.00 per semester hour new Registration Fee, imposed by law, effective June 1, 1959	$16.00 plus $4.00 per semester hour new Registration Fee, imposed by law, effective June 1, 1959
GROUP II Law Medical Technology (Jr. and Sr. Years) Nursing Pharmacy	$80.00* plus new Registration Fee of $50.00, imposed by law, effective June 1, 1959.	$255.00* plus new Registration Fee of $50.00, imposed by law, effective June 1, 1959	$5.00 plus $4.00 per semester hour new Registration Fee, imposed by law, effective June 1, 1959	$17.00 plus $4.00 per semester hour new Registration Fee, imposed by law, effective June 1, 1959
GROUP III Dentistry Medicine	$142.00* plus new Registration Fee of $50.00, imposed by law, effective June 1, 1959.	$360.00* plus new Registration Fee of $50.00, imposed by law, effective June 1, 1959	$8.00 plus $4.00 per semester hour new Registration Fee, imposed by law, effective June 1, 1959	$26.00 plus $4.00 per semester hour new Registration Fee, imposed by law, effective June 1, 1959

*Includes Athletics $8, Student Organizations $1.25, Daily Athenaeum $.75, Health Service Fee $6, Mountainlair Fee $4, Student Union Building Fee $3, and Cultural Program Fee $2.

During the fifth and sixth weeks ..... 60% of semester fees not chargeable to Special Services.[17]
During the seventh and eighth weeks ..... 40% of semester fees not chargeable to Special Services.[17]
Beginning the ninth week ..... No refunds allowed.

Cost of an Academic Year's Work

A student's textbooks will cost approximately $60 a year, and his registration fees $230 to $384 if he is a resident; or $560 to $860 if a nonresident. Students in engineering will use drawing instruments costing from $15 to $30. The laboratory breakage deposit required ranges from $7 to $12, a part of which is usually returned at the end of the year. In air and military science a $20 deposit is required to cover military equipment in the custody of the student, practically all of which is returned to the student when he accounts for his equipment. Board and room may be obtained at from approximately $600 to $650 a year. A student's laundry will cost from $35 to $45 a year. Traveling expenses, clothing, and other miscellaneous items will depend largely upon the taste and habits of the individual student. In general, however, it may be said that the legitimate cost of a 9-month term of residence at the University ranges from $1,000 to $1,600 a year.

CLASSIFICATION OF STUDENTS

The following table shows the number of semester hours required for classification as second-year, third-year, and fourth-year students and for graduation, according to the curricula in the several colleges, schools, and divisions. First-year students must satisfy the requirements as set forth on pages 69-70.

[13]A full-time student is one who is registered for 12 or more semester hours of work each semester of the regular academic year, or 5 or more semester hours of work during the Summer Session. A full-time student during the regular academic year receives an Identification Card which entitles him to admission to all athletic events. A full-time student during the regular academic year or during the Summer Session is entitled to free medical consultation and advice from the University physician. A moderate charge is made for room calls, X-rays, special laboratory tests, drugs furnished by the University Pharmacy, minor operations, treatment of fractures and dislocations, and intravenous treatment.

[14]A part-time student is one who is registered for fewer than 12 semester hours per semester during the regular academic year, or for fewer than 5 semester hours during the Summer Session.

[15]No person shall be considered eligible to register in the University as a resident student who has not been domiciled in the State of West Virginia for at least twelve consecutive months next preceding college registration. No nonresident student may establish domicile in this State, entitling him to reduction or exemptions of tuition, merely by his attendance as a full-time student at any institution of learning in the State. A minor student whose parents acquire a West Virginia domicile after the student's original registration will be deemed to have the domicile of his parents and become entitled to pay resident fees. Moreover any student who has originally paid nonresident fees may become entitled to pay resident fees, if after an interim of nonattendance or otherwise he has established a valid legal domicile in this State at least twelve months prior to his registration in the University. In any event, the appointment of a guardian for a minor student temporarily resident in West Virginia, other than the designation of a natural guardian, shall not in and of itself operate to establish a West Virginia domicile for such student.

[16]The minimum rate for non-credit courses is that charged for one semester hour of credit.

[17]Athletics Fee, Student Organizations Fee, Daily Athenaeum Fee, Health Service Fee, Mountainlair Fee, Cultural Program Fee, and Student Union Building Fee, all chargeable to Special Services, nonrefundable during this period.

COLLEGE AND DEGREE	HOURS REQUIRED TO CLASSIFY AS Second-Year Student	Third-Year Student	Fourth-Year Student	Required for Degree
AGRICULTURE, FORESTRY, AND HOME ECONOMIC:				
B.S. (Bachelor of Science)	26	64	100	144
B.S. in Agriculture (B.S.Agr.)	26	64	100	144
B.S. in Forestry (B.S.F.)	30	70	110	150
B.S. in Home Economics (B.S.H.E.)	25	58	92	128
AGRICULTURE & ENGINEERING				
B.S. in Agr'l Eng'g (B.S.Agr.E.)	30	72	112	148
ARTS AND SCIENCES				
Associate in Arts (A.A.)	25	..	..	64
Bachelor of Arts (A.B.)				
Regular	25	58	92	128
Premedical	32	58	96	128
Combined (Dentistry)[18]	32	58	96	132
Combined (Medicine)[19]	32	58	96	132
BACHELOR OF SCIENCE (B.S.)				
Geology	32	58	99	132
Chemistry	34	69	103	136
Nursing Education	25	58	92	128
Physics	34	69	103	136
Social Work	25	58	92	128
COMMERCE				
B.S. in Bus. Ad. (B.S.Bus.)	..	58	92	128
B.S. in Economics (B.S.Ec.)	..	58	92	128
DENTISTRY				
Doctor of Dental Surgery (D.D.S.)	33	67	110	151
EDUCATION[20]				
B.S. in Elem. Educ. (B.S.E.Ed.)	..	58	92	128
B.S. in Secondary Educ. (B.S.Sec.Ed.)	..	58	92	128
ENGINEERING[21]				
Bachelor of Science	27	60	94	133
B.S. in Aero. Eng'g (B.S.A.E.)	30	72	112	148
B.S. in Chem. Eng'g (B.S.Ch.E.)	30	72	112	148
B.S. in Civil Eng'g (B.S.C.E.)	30	72	112	154
B.S. in Elec. Eng'g (B.S.E.E.)	30	72	112	148
B.S. in Ind. Eng'g (B.S.I.E.)	30	72	112	148
B.S. in Mech. Eng'g (B.S.M.E.)	30	72	112	148

[18]Fourth year in the School of Dentistry.
[19]Fourth year in the School of Medicine.
[20]For the Degrees of Bachelor of Science in Education, at least 10 hours of residence work must be in Education.
[21]Students matriculating with 58 or more hours of credit may graduate with 148 hours, since physical education is not required of these students.

COLLEGE AND DEGREE	HOURS REQUIRED TO CLASSIFY AS Second-Year Student	Third-Year Student	Fourth-Year Student	Required for Degree
JOURNALISM				
B.S. in Journalism (B.S.J.)	..	58	92	128
LAW				
Bachelor of Laws (LL.B.)	21	50	..	81
MEDICINE				
Bachelor of Science (B.S.) Medical Technology	25	58	100	135
MINES				
B.S. in Eng'g of Mines (B.S.E.M.)	30	72	112	154
MUSIC				
Bachelor of Music (B.Mus.)	30	64	102	136
NURSING				
Bachelor of Science (B.S.)	30	TO BE DETERMINED		
PHARMACY				
B.S. in Pharmacy (B.S. Pharm.)	33	70	108	142
PHYSICAL AND HEALTH EDUCATION, RECREATION, AND SAFETY				
Bachelor of Science in Physical Education (B.S.P.E.)	28	58	92	128
Bachelor of Science in Recreation (B.S.Rec.)	28	58	94	130

EXAMINATIONS AND REPORTS

Courses

As a rule courses extend through one semester only. In the College of Law, however, courses may extend either through the entire year or through one semester. No credit will be given for less than an entire course except by special order of the Committee on Scholarship. Grades given at the end of the first semester in courses extending throughout the year are merely indicative of the quality of work done by the student to that point and do not give credit for the part of the course so far completed. Such first-semester grades may be considered in determining the final grade, however.

Mid-Semester and Final Examinations

In practically all courses offered in the University, the student receives both a preliminary or mid-semester grade and a final grade. The mid-semester standing of a student is based on the daily recitation grades and a special test given during one or more regular recitation periods. Mid-semester grades are not entered on the Registrar's records. The final grade is based on the class standing for the entire semester and on a written final examination to which a special period of two or three hours is devoted, except that the manner of determining the final grade of seniors and graduate students provisionally approved for graduation at the end of the semester or term is left with the chairman of the department. Any student not satisfied with his grade, however, has the right to take the examination with his class if he so desires.

Examination Periods

Mid-semester examinations are held during the week immediately preceding the day of the mid-semester reports as set forth in the University Calendar. Final examinations are held during the last week of each semester of the academic year, and during the last two days of each term of the Summer Session.

Absence From Examinations

Students are required to take all regular examinations. If a student attends a course throughout the semester and is absent from examination without permission, the instructor shall count the examination as zero and report the final grade as "F." If, in the opinion of the instructor, absence of the student was for satisfactory reason, the fact will be recorded on the student's class ticket, the grade "I" will be returned, and the student may, upon application to the instructor, take the examination at a later date.

Reports

Mid-semester grades are reported to students' advisers and to deans but are not recorded in the office of the Registrar.

Final grades are reported by instructors directly to the Registrar's office. Final grades must be in the hands of the Registrar within 48 hours after the closing hour of the examination. This rule also applies to the final grades of all students registered in other colleges or schools of the University who are enrolled in law courses.

The final standing of all seniors provisionally approved for graduation shall be reported by their instructors to the deans or directors of their colleges or schools, and the final standing of all graduate students provisionally approved for graduation shall be reported to the Dean of the Graduate School not later than the last day of recitation of the second semester. For this purpose special report cards are supplied by the Registrar.

A report of each student's work is made at the close of the semester or summer session to the student himself and to his parents or guardian.

SCHOLASTIC STANDING AND GRADE POINTS

Grading System

A—excellent (given only to those students of superior ability and attainment)
B—good (given to those students who are well above average, but not in the highest group)
C—fair (average students)
D—poor but passing[22]
F—failure
I—incomplete
W—all withdrawals prior to the end of the second week following the date set for mid-semester reports
WP—withdrew passing subsequent to the end of the second week following the date set for mid-semester reports
WF—withdrew failing subsequent to the end of the second week following the date set for mid-semester reports
X—auditor, no grade and no credit

Grade Points

The grade-point average is computed on all work for which the student has registered, except for the courses with grades of "W" and "WP," and is based on the following grade-point values:

[22]Veterans of World War II or Korea may register for courses in which they have a grade of "C" or higher, but no credit will be given for the new listing.

A	B	C	D[23]	F	WF	I	X
4	3	2	1	0	0	0	0

Provided, however, that when a student receives a grade of "I" and later removes the incomplete grade, his average grade-point standing shall be calculated on the basis of the new grade.

Incompletes and Failures

If the final grade of a student in any course is "F," the student must take the course again if he desires to receive credit for it. The grade of "I" is given when an instructor believes that the course work is unavoidably incomplete or that a supplementary examination is justifiable. The grade of "I" can be removed within the following semester or the next semester in which the student is in residence, and becomes a failure unless special permission is granted by the appropriate Scholarship Committee to postpone removal.

Absences

Students shall attend all classes, including laboratory sessions, for which they are registered, unless prevented from doing so by illness, injury, authorized University activities, or other reasons approved by their deans. The student who is absent for any of the foregoing reasons is nevertheless responsible for the work missed.

Duties of Instructors

Each instructor shall be responsible for keeping an attendance record of students in his classes and shall report an excessive number of absences to the student's dean and his adviser.

Duties of Advisers

All advisers, upon receipt of reports of excessive numbers of absences, shall have conferences with the students concerned and shall make such recommendations and adjustments as are desirable and feasible. If the adviser does not find a satisfactory solution after a conference with the student, he shall report the case to the dean of the college or school.

Probation and Suspension

Any student whose mid-semester grades are below passing in courses amounting to more than half of the total number of semester hours for which he is registered shall be placed on probation for the remainder of the semester. The terms of probation are determined by the respective scholarship committees.

Any student whose grades at the end of any registration period are below passing in courses amounting to more than half the total number of semester hours for which he is registered shall be suspended from the University. A freshman, subject to the operation of this rule at the end of his first registration period in residence, shall be placed on probation for the succeeding registration period.

All actions of the Committee on Scholarship and of the dean or instructor of the college or school that affect the standing of a student shall be reported by the dean to the Registrar.

[23]Students, unless enrolled in the College of Commerce, School of Dentistry, College of Law, School of Medicine, or School of Pharmacy, are permitted to reregister at West Virginia University for any courses for which a grade of "D" has been received at West Virginia University. In such cases the second grade shall supersede the first, provided it is not lower than "D." For teacher certification the student is responsible for every registration in a course for which a grade of A, B, C, D, F, FIW, WF, or I is received.
The grade-point average is computed on all work attempted.

Duties of Committee on Scholarship

The Committee on Scholarship shall have authority to proceed according to its best judgment in regard to delinquent students referred to it for consideration.

All orders of the committee shall become effective when approved by the dean of the college or school.

In the exercise of its authority the Committee shall not suspend a student during a semester except for willful neglect and in cases where the student's class grades are so low that further class attendance would be a waste of time. No suspension shall become effective until approved by the dean of the college.

Regulations Affecting Degrees

Candidates for degrees are eligible for graduation upon completion of the requirements in the college or school in which they are registered which were in effect at the time of their first registration in that college or school, provided they apply for graduation within a period of seven years from the time of their first registration. Students who fail to complete the requirements for graduation within seven years from their first registration shall satisfy the requirements in effect at the time they apply for graduation.

All degrees are conferred by the Board of Governors upon recommendation of the faculties of the various colleges and schools. Degrees are granted at the close of the semester or summer session term in which the students complete their work.

Candidates for degrees to be conferred at the close of the second semester must be present in person to receive their degrees unless excused by the deans of their colleges and schools. No individual may be exempt from the provisions of this University regulation except by official action of the Board of Governors.

BACCALAUREATE DEGREES

Credits and Grade Points Required

Less than 6 hours in an ancient or modern language will not be counted toward any University degree, diploma, or certificate unless work in the same language has been offered for entrance.

Six hours of English composition and rhetoric (English 1 and 2) are required of all candidates for the Bachelor's Degree in all colleges and schools of the University.

Eight hours of basic military science or air science are required of all freshmen and sophomore men not specifically exempt.

Enrollment in the advanced courses Army ROTC and Air Force ROTC is elective on the part of those students who may be selected by the President of the University and the Professor of Military Science or the Professor of Air Science, under regulations prescribed by the Secretary of the Army or the Secretary of the Air Force. Each student who shall have been enrolled in either advanced course shall complete that course and, if tendered, accept a commission in a reserve component of the Army or Air Force upon completion of the course as a prerequisite for his graduation from the University, unless he is excused from this requirement by the authority of the Secretary of the Army or the Secretary of the Air Force.

Two hours of physical education for men (P.E. 1 and 2), to be taken during the first year in residence, and four hours of physical education for women (P.E. 3-25, 101-102), to be taken during the first and second years in residence, are required for graduation, except in the case of students entering with advanced standing amounting to 58 semester hours or more.

Each undergraduate who began college work after June 1, 1952, must pass a proficiency examination in English after the beginning of his junior year in order to qualify for graduation. (This examination, however, is not required of students of foreign countries whose native language is other than English.) He shall take the examination during the first semester of his junior year, and if not declared proficient, shall repeat the examination as many times as necessary. The examination shall be administered by the English Proficiency Board.

Each baccalaureate degree is conditioned upon the completion of a specified number of semester hours of credit. For a tabular statement of the number of credit hours required for each degree, see the last column on pages 86 and 87 under the caption "Classification of Students."

All divisions of the University require minimum standards of scholastic quality. Grade points are computed only on grades earned at West Virginia University (including Potomac State College of West Virginia University). To be eligible for graduation, a student must have an average of "C" or an average of two grade points on all work for which he received grades (except "W" and "WP"). The College of Education, in addition to the general average of two grade points per credit hour in all subjects, requires an average of two grade points per hour of credit in Education and in each teaching field.

It is the student's responsibility to keep informed of his grade-point standing. This information may be obtained at any time from the dean of the college, school, or division in which the student is registered.

Graduation With Honors and With High Honors

Effective June 1, 1949, the University established the practice of awarding "Honors" and "High Honors" to qualified students who are candidates for their initial baccalaureate degrees. (Candidates from the College of Law are excluded.) The following regulations govern these awards:

1. The computation of the average shall begin with the student's penultimate term or semester and continue in reverse chronological order until at least 54 semester hours have been counted. If, in order to total the required number of hours, it is necessary to include any part of a semester or term, the work of the whole semester shall be included.

2. No graduate shall be eligible for honors unless he shall have completed at least half of the semester hours required for his degree in West Virginia University.

3. The senior year must be at the University.

4. No graduate shall be eligible for honors if his grade-point average for his final semester or term is less than 3.0.

5. Subject to the above conditions, all candidates for a baccalaureate degree whose average, as shown by the portion of the work used, is 3.6 or above, shall be graduated with "High Honors." All those whose average is less than 3.6 but 3.3 or above, shall be graduated with "Honors."

6. Fitting recognition of graduation with honors shall be made on the candidate's diploma and on the commencement program.

Requirements as to Residence

Students who come to the University from other colleges or universities are advised to make the transfer not later than the beginning of their third year and in no case will a student who matriculates in the University later than October 1 in any year be permitted to receive a degree at the next commencement.

In special cases students who desire to leave the University at the close of their third year to enter another institution with the purpose of taking a combined course leading to two degrees or of preparing for graduate study, upon application beforehand to the Committee on Scholarship of the college or school in which they are registered, may be permitted to do the work of the fourth year, or a part thereof, at such other institution and to receive the Bachelor's Degree from the University upon the presentation of the proper credits.

Except in the College of Law, no student will be granted a Bachelor's Degree by the University who has not done either a total of 90 hours or the last 30 hours of his work in actual residence at the University.

No student may receive the Degree of Bachelor of Laws without at least three semesters in residence at the College of Law and the successful completion of courses aggregating at least one-half of the total number of hours required for graduation.

Work Done Out of Residence

It is the policy of the University to discourage the taking of regular residence courses in absentia. In the case of courses begun at the University and not completed because of illness or for other acceptable reasons, however, permission to complete the work in absentia under the direction of the regular University instructors may be granted by the Committee on Scholarship; but in such case credit should be given only upon a report of the grade of no less than "C" on final examination.

This regulation does not apply to University extension courses.

Credit in Correspondence Work

Credit up to a maximum of 30 semester hours for work completed by correspondence in non-laboratory courses will be accepted by the University when such work is given by accredited colleges or universities that accept this work for credit toward their own degrees and whose residence work is accepted by West Virginia University.

College Credit Defined

A college credit or semester hour represents the amount of work done in one semester in one recitation hour with two preparation hours a week. From two to three hours of laboratory work are considered equivalent to one hour of recitation, according to the amount of outside work assigned in connection with the laboratory hours.

Substitution for Required Courses

A student who desires to substitute another course for any course prescribed in his curriculum or required for the degree toward which he is working must obtain permission for such substitution from the Committee on Scholarship in his college or school, but there can be no substitution from group to group.

Maximum and Minimum Work

The maximum and minimum number of hours per semester as well as the maximum number of hours per year for which a student may register during the regular academic year of the University are as follows:

	Minimum Hours per Semester	*Maximum Hours per Semester*	*Year*
Agriculture	14	20	..
Arts and Sciences	14	20	..
Commerce	14	18	..
Dentistry	16	22	..
Education	..	18	36
Engineering	14	20	..
Forestry	14	20	..
Home Economics	14	18	34
Journalism	14	18	36
Law	13	16	..
Medicine	17	20	..
Mines	12	20	..
Music	14	20	..
Nursing	14	20	..
Pharmacy	14	20	..
Physical and Health Education, Recreation, and Safety	14	20	..

Work of the Summer Session is equivalent in character to that of the regular year. One hour's credit per week is a normal load for either term; but in order to facilitate scheduling of courses, undergraduate students may carry 7 hours if the periods are seventy-five minutes in length.

One of the student's best friends on campus is his adviser. The adviser assists the student with the scheduling of courses, preparing for his semester's work, his academic matters, and personal problems, and helps the student develop productive study practices and habits.

A student desiring to do irregular work, more or less than the prescribed number of hours in any college, must obtain permission from the Committee on Scholarship in his college or school. This permission is not valid until it has been reported to the Registrar for record.

WITHDRAWAL FROM THE UNIVERSITY

A student who desires to withdraw from the University must obtain a withdrawal card from the office of the Registrar, 103 Administration Building. Withdrawal procedure will be explained to him when he obtains this card.

Students who withdraw from the University without permission will receive at the end of the semester a grade of "F" (failure) in each of the courses for which they are registered and will be indefinitely suspended from the University.

Students who desire to drop part of their work may withdraw from classes in which they are enrolled with a grade of "W" at any time prior to the end of the second week following the date set for mid-semester reports. Withdrawal permits must be approved by the adviser and accepted by the Registrar. If such withdrawal reduces the student's hours below the required minimum, the permit must be approved by the Scholarship Committee. Withdrawals after the above date will be permitted only in exceptional cases and must be approved by the Scholarship Committee of the college or school in which the student is registered.

Students must present a signed statement from the Librarian that they have returned all books and paid all library fines before they will be allowed to withdraw.

Re-Entry After Withdrawal

Students required to withdraw from one college or school of the University because of failure in their work and permitted to transfer to another unit of the University may not again register in the college or school in which they were originally registered without the consent of the Scholarship Committee of that college or school.

Part III
COURSES OF INSTRUCTION

General

This section of the *Catalog* is intended only as a guide to the variety and breadth of the course offerings of the schools, colleges, and divisions of the University. Fuller descriptive material on each course, in addition to extensive information on curricula, degrees, policy, aims, and educational philosophies will be found in the 1961-62 *Announcements* of each School, College, or Division, which may be procured from the respective deans.

ABBREVIATIONS

The following abbreviations are used in the descriptions of courses.

I—a course given in the first semester.
II—a course given in the second semester.
I, II—a course given in each semester.
I and II—a course given throughout the year.
S—a course given in the Summer Session.
SI—a course given in the first term of the Summer Session.
SII—a course given in the second term of the Summer Session.
hr.—number of credit hours per course.
consent—consent of instructor required.
PR:—prerequisite.

PLAN FOR NUMBERING COURSES

For convenience each course of study is designated by the name of the department in which it is given and by the number of that course. The plan for numbering is as follows:

Courses 1 to 99—courses intended primarily for freshmen and sophomores.

Courses 100 to 199—courses intended primarily for juniors and seniors.

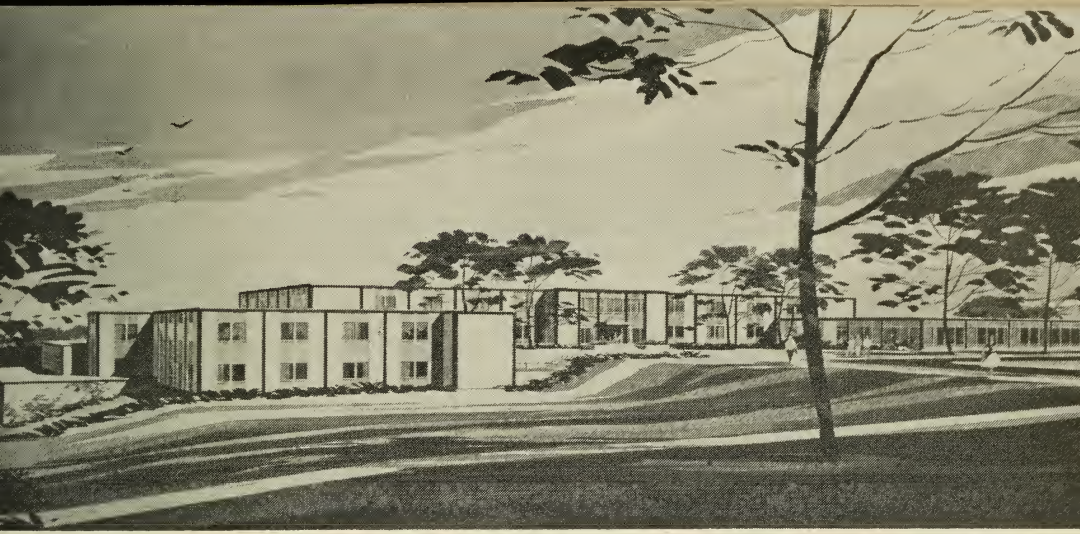
Courses 200 to 299—advanced courses for juniors, seniors, and graduates.

Courses 300 to 399—courses open to graduate students only.

SEMESTER COURSE SCHEDULES

Before the opening of each semester, a schedule is printed announcing the courses that will be offered in the College of Agriculture, Forestry, and Home Economics; the College of Arts and Sciences; the College of Commerce; the College of Education; the School of Journalism; the Division of Military Science and Air Science; the School of Music; and the School of Physical and Health Education, Recreation and Safety. Schedules are prepared for the School of Dentistry, the College of Engineering and the School of Mines, the College of Law, the School of Pharmacy, the School of Nursing, and the School of Medicine, but are not printed.

In accordance with individual departmental policy, many courses listed on the following pages may not be offered every year, but only on alternate years. Course schedules and *Announcements* will so indicate.



The new "home" of The College of Agriculture will greet its first students in September, 1961.

The College of Agriculture, Forestry, and Home Economics

Division of Agriculture

In order to be eligible to take courses 180, 181, ASSIGNED TOPICS, the student must:

1. Have completed 100 hours of work and have a grade-point average of 2.5 or above;

2. Present, in advance, a written outline of the work to be done as an assigned topic. This outline must be acceptable to the Dean of the College and the department chairman concerned.

Item 1 does not apply to special students.

A student may not receive credit toward graduation for more than four hours of assigned topics.

AGRICULTURE

Undergraduate Division

11. Professions in Agriculture. I. 1 hr. For freshmen and transfer students. (Students in Agricultural Engineering exempt from this course.)
12. Professions in Agriculture. II. 1 hr. For freshmen and transfer students. (Students in Agricultural Engineering exempt from this course.)
51. Principles of Animal Science. I. 4 hr.
52. Principles of Plant Science. II. 4 hr.

Graduate Division

360. Problem Report for the Degree of Master of Agriculture. I, II, S. 1-3 hr.

Statistics

Undergraduate Division

101. Statistical Concepts. II. 3 hr.
211. Statistical Methods. I. 3 hr.
212. Advanced Statistical Methods. II. 3 hr. PR: Agr. 211 or equivalent. Continuation of Agr. 211.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. PR: Consent.

AGRICULTURAL BIOCHEMISTRY AND NUTRITION

Undergraduate Division

101. Introductory Plant and Animal Biochemistry. II. 3 hr. PR: Chem. 1 and 2, Chem. 31 or 131 or equivalent.

180, 181. Assigned Topics. I, II. 1-4 hr. per semester.

202. Introductory Biochemistry. II. 3 hr. PR: General chem., organic chem. Open to Education majors only.

218. Dairy Chemistry. II. 3 hr. PR: Organic chem., (Quantitative analysis desirable.)

290. General Biochemistry. I. 3 hr. PR: Chem. 238, quantitative analysis, and consent.

291. General Biochemistry. II. 3 hr. PR: Agr. Biochem. 290 or consent.

293. Laboratory Experiments in Biochemistry. I. 2 hr. PR: Agr. Biochem. 290 or concurrent registration.

Graduate Division

301. Enzymes. I. 3 hr. PR: Agr. Biochem. 290 or consent.

303. Biochemistry of Carbohydrates. I. 2 hr. PR: Agr. Biochem. 291.

305. Biochemistry of the Lipids. II. 2 hr. PR: Agr. Biochem. 290 or consent.

306. Nutrition Laboratory Methods. I. 3 hr. PR: Agr. Biochem. 291.

307. Nutritional Biochemistry. I. 3 hr. PR: Agr. Biochem. 291.

310. Nutrition and Physiology of the Ruminant. II. 3 hr. PR: Animal Sci. 100, 101, Agr. Biochem. 190.

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr.

325. Advanced Biochemistry Laboratory. I. 2 hr. PR: Agr. Biochem. 290 or concurrent registration.

326. Advanced Biochemistry Laboratory. II. 2 hr. PR: Agr. Biochem. 290.

330. Mineral Metabolism. II. 3 hr. PR: Agr. Biochem. 291, or consent.

350, 351, 352, 353. Seminar. I, II. 1 hr. per semester.

380, 381, 382, 383. Research. I, II, S. 1-6 hr. per semester.

NOTE: Additional biochemistry courses are offered by the Department of Biochemistry in the School of Medicine.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Agricultural Economics

Undergraduate Division

102. Agricultural Economics. I, II. 3 hr.

104. Farm Management. I. 3 hr. PR: Agr. Econ. 102.

131. Marketing Agricultural Products. II. 3 hr. PR: Agr. Econ. 102.

180, 181. Assigned Topics. I and II. 1-4 hr. per semester.

200. Land Economics. II. 3 hr.

206. Farm Planning. I. 3 hr. PR: Senior standing.

230. Cooperative Marketing. II. 2-3 hr. PR: Agr. Econ. 102.

235. Marketing Dairy Products. II. 2 hr. PR: Agr. Econ. 102.

271. Agricultural Policy. II. 2 hr.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

340. Advanced Farm Management. I. 3 hr. PR: Agr. Econ. 206.

341. Production Economics. I. 3 hr.

342. Advanced Agricultural Economics. II. 3 hr.

380, 381, 382, 383. Research. I and II. 1-6 hr. per semester.

Rural Sociology

Undergraduate Division

105. Sociology of Rural Life. II. 3 hr.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

380, 381, 382, 383. Research. I and II. 1-6 hr. per semester.

AGRICULTURAL EDUCATION

Undergraduate Division

118. Organizations and Clubs for Farm Boys. II. 2 hr.

134. Methods of Agricultural Extension. I. 2 hr.

138. Theory and Practice of Agricultural Extension Work. II. 2 hr.

Ed. 160. Materials and Methods of High School Teaching of Vocational Agriculture. I. 3 hr.

180, 181. Assigned Topics. I, II, SI. 1-4 hr. per semester. PR: Adequate ability and training for the work proposed, and consent.

Ed. 124. Student Teaching in Vocational Agriculture. I, II. 4 hr.

Ed. 276. Teaching Young and Adult Farmer Classes. I, SI. 2 hr. PR: Ed. 105, 106.

Ed. 277. Organizing and Directing Supervised Farming Programs. I, SI. 2 hr. PR: Ed. 160 or consent.

Graduate Division

239. Program Building in Agricultural Extension. II. 3 hr. PR: Agr. Ed. 134, 138, or consent.

Ed. 318. Planning Programs and Courses for Vocational Agriculture Departments. II, SI. 2 hr. PR: Ed. 160, 124.

320, 321, 322, 323. Special Topics. I, II, S. 1-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

350, 351, 352, 353. Seminar. I, II, SI. 1 hr.

360. Problem. I, II, S. 1-3 hr. (For the Master's Degree.)

380, 381. Research. I and II. 1-6 hr. per semester.

AGRICULTURAL ENGINEERING AND AGRICULTURAL MECHANICS

Agricultural Engineering

Undergraduate Division

10. Principles of Agricultural Engineering. I. 3 hr. PR: Math. 4.

100. Farm Structures. II. 3 hr. PR: M. 102.

110. Application of Electricity to Agriculture. II. 3 hr. PR: E. E. 106.

140. Soil and Water Conservation. I. 3 hr. PR: C.E. 115.

180, 181. Assigned Topics. I, II. 1-4 hr. per semester.

190. Farm Machinery. II. 3 hr. PR: M.E. 113.

200. Seminar. I. 1 hr. PR: Senior standing.

230. Farm Power. I. 4 hr. PR: M.E. 121.

240. Hydrology. I. 3 hr. PR: C.E. 115.

Graduate Division

320, 321. Special Topics. I, II, S. 1-6 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

397. Research. I and II. 1-6 hr.

Agricultural Mechanics

Undergraduate Division

113. Farm Refrigeration. II. 3 hr. PR: Math. 2.

151. Mechanics of Soil and Water Conservation. I. 3 hr. PR: Math. 2.

152. Farm Shop. I. 3 hr. PR: Math. 2.

153. Farm Machinery. II. 3 hr. PR: Math. 2.

155. Household Equipment. II. 2 hr. PR: Math. 2.

159. Farm Structures. II. 3 hr. Math. 2.

170. Rural Electrification. II. 3 hr. PR: Math. 2.

175. Farm Gas Engines and Tractors. I. 3 hr. PR: Math. 2.

180, 181. Assigned Topics. I, II, S. 1-4 hr. per semester.

200. Rural Water Supply and Sanitation. I. 2 hr. PR: Agr. Mech. 170.

252. Advanced Farm Mechanics. II. 3 hr. PR: Agr. Mech. 152.

253. Advanced Farm Machinery. II. 3 hr. PR: Agr. Mech. 153.

254. Farm Maintenance and Construction Welding. II. 3 hr. PR: Agr. Mech. 153.

255. Care and Repair of Home Equipment. II. 2 hr.

259. Functional Requirements of Farm Buildings. I. 3 hr. PR: Agr. Mech. 159 or consent.

270. Electricity in Agriculture. I. 3 hr. PR: Agr. Mech. 170 or consent.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

380, 381. Research. I and II. 1-6 hr. per semester.

Agricultural Engineering students beginning in September, 1961, will enjoy plenty of space for studying and working with agricultural laboratory equipment and machinery. They study courses in farm structures, electricity in agriculture, farm machinery, farm power, hydrology, etc. Agricultural Mechanics includes refrigeration, soil and water conservation, farm shop, machinery, household equipment, structures, maintenance, and welding.

AGRONOMY AND GENETICS

Agronomy

Undergraduate Division

1. Farm Crops. II. 4 hr. PR: Bot. 2 or 104, or Biol. 2.
2. Principles of Soil Science. I. 3 hr. PR: Chem. 2.
10. Forest Soils. I. 4 hr. PR: Chem. 2.

180, 181. Assigned Topics. I, II. 1-4 hr. per semester.

210. Fertilizer and Soil Fertility. I. 3 hr. PR: Agron. 2 or 10.

212. Soil Conservation and Management. II. 3 hr. PR: Agron. 210.

216. Soil Genesis and Classification. II. 3 hr. PR: Agron. 2 or 10.

230. Soil Physics. I. 3 hr. PR: Agron. 2 or 10.

251. Weed Control. I. 2 hr. PR: Agron. 1 and 2.

252. Grain and Special Crops. II. 3 hr. PR: Agron. 1 and 2.

254. Pasture and Forage Crops. II. 4 hr. PR: Agron. 1 and 2.

Graduate Division

316. Soil Chemistry. I. 3 hr. PR: Consent.

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

350, 351, 352, 353. Seminar. I, II. 1 hr. per semester.

380, 381, 382, 383. Research. I, II. 1-6 hr. per semester.

Bacteriology

314. Soil Microbiology. II. 4 hr. PR: Agron. 2 and Bact. 141.

Genetics

Undergraduate Division

111. Elementary Genetics. I, II. 2 hr. PR: 6 hr. of biological science.

112. Genetics Laboratory. I, II. 1 hr.

180, 181. Assigned Topics. 2-4 hr. PR. Gen. 111 or 221 and consent.

220. Crop Breeding. II. 3 hr. PR: Gen. 111 or 221.

221. Genetics. I. 3 hr. PR: 8 hr. in biological science.

222. Advanced Genetics. II. 3 hr. PR: Gen. 111 or 221 and consent.

224. Human Genetics. II. 2 hr. PR: Gen. 111 or 221.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

350, 351, 352, 353. Seminar. I, II. 1 hr. per semester.

380, 381, 382, 383. Research. I, II. 1-6 hr. per semester.

ANIMAL AND VETERINARY SCIENCE

Undergraduate Division

100. Introduction to the Physiology of Domestic Animals. I. 3 hr. PR: Biol. 2 or Zool. 2, Chem. 131 (concurrent) or consent.

101. Animal Nutrition. I. 3 hr.

102. Animal Pathology. I. 3 hr.

138. Grading and Selection. II. 2 hr.

141. Beef Production. I. 3 hr.

142. Pork Production. II. 3 hr.

143. Advanced Judging. I. 2 hr.

162. Sheep Production. II. 3 hr.

166. Meats. II. 2 hr.

167. Meats. I. 3 hr.

169. Meat Judging. I. 2 hr.

180, 181. Assigned Topics. I, II. 1-4 hr. per semester.

195. Seminar. II. 1 hr. (Primarily for Seniors.)

202. Advanced Meats. II. 3 hr. PR: An. & V.S. 167.

206. Parasites and Pathology. II. 3 hr. PR: Biol. 1 and 2 or equivalent.

223. Advanced Livestock Production. I. 3 hr. PR: An. & V.S. 101.

224. Advanced Livestock Production. II. 3 hr. PR: An. & V.S. 101.

225. Reproduction of Farm Animals. II. 3 hr. PR: Gen. 221 or consent.

226. Breeding of Farm Animals. II. 3 hr. PR: Gen. 221 or consent.

Graduate Division

303. Advanced Animal Nutrition. II. 3 hr. PR: An. & V.S. 101 and Chem. 131 or 233.

Fitting and showing farm animals is a real challenge to many Agriculture students. They have several opportunities to engage in this activity in the College. The Little Eastern National Livestock Show, held each year at the University, offers valuable experience in fitting and showing farm animals.

310. Nutrition and Physiology of the Ruminant. II. 3 hr. PR: An. & V.S. 100, 101, Agr. Biochem. 190.

320, 321, 322, 323. Special Topics. I, II, S. 1-4 hr. (1 hr. credit in special cases only). (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

350, 351, 352, 353. Seminar. I, II. 1 hr.

370. Methods of Animal Research. (With Dairy and Poultry Science). I. 3 hr.

380, 381, 382, 383. Research. I, II. 1-6 hr. per semester.

DAIRY SCIENCE

Undergraduate Division

12. Dairy Technology. II. 3 hr.

101. Animal Nutrition. I. 3 hr.

102. Ice Cream and Refrigeration. I. 3 hr.

103. Market Milk. I. 3 hr.

104. Butter and Cheese. II. 3 hr.

107. Milk and Public Health. I. 3 hr.

123. Judging Dairy Cattle. II. 2 hr.

124. Judging Dairy Products. II. 2 hr.

180, 181. Assigned Topics. I and II. 1-4 hr. per semester.

195. Seminar. II. 1 hr.

204. Advanced Dairy Technology. II. 4 hr.

221. Dairy Cattle. I. 3 hr.

222. Milk Production. II. 4 hr.

225. Reproduction of Farm Animals. II. 3 hr. PR: Gen. 221 or consent.

226. Breeding of Farm Animals. II. 3 hr. PR: Gen. 221 or consent.

227. Milk Secretion. II. 3 hr. PR: Chem. 31, D.S. 225.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

330. Advanced Milk Production. II. 3 hr. PR: D.S. 101 or equivalent.

350, 351, 352, 353. Seminar. I, II. 1 hr.

370. Methods of Animal Research. (With Animal and Veterinary Science and Poultry Science.) I. 3 hr.

380, 381, 382, 383. Research. I, II. 1-6 hr. per semester.

Bacteriology

246. Dairy Bacteriology. I. 3 hr.

Chemistry

218. Dairy Chemistry. II. 3 hr.

HORTICULTURE

Undergraduate Division

104. Plant Propagation. II. 3 hr.

115. Judging and Identification of Apple Varieties. I. 1 hr.

116. Flower Judging. II. 1 hr.

117. Vegetable Identification and Judging. I. 1 hr.

129. History and Appreciation of Landscape Design. II. 3 hr.

140. Woody Plant Materials. II. 3 hr.

141. Greenhouse Management. II. 3 hr.

151. Flower Arrangement. I. 3 hr. PR: Hort. 141 or consent.

180, 181. Assigned Topics. I and II. S. 1-4 hr. semester.

206. Small-Fruits Production. I. 3 hr.

208. Application of Sprays, Dusts, and Fumigants. II. 2 hr. PR: Entom. 202 or Plant Path. 103 and Hort. 1, 2, or 229.

212. Commercial Tree-Fruit Production. I. 3 hr.

229. Landscape Design. I. 3 hr.

232. Commercial Vegetable Production. II. 2 hr. PR: Hort. 1.

234. Laboratory Inspection Trip. II. 1 hr. PR or Conc: Hort. 232.

239. Advanced Landscape Design. I. 3 hr. PR. Hort. 140, 229, or consent.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

380, 381, 382, 383. Research. I, II, S. 1-6 hr. per semester. (Max. credit 6 hr.).

PLANT PATHOLOGY, BACTERIOLOGY, AND ENTOMOLOGY

Bacteriology

Undergraduate Division

141. General Bacteriology. I, II. 4 hr. (3 hr. for Engineering students). PR: Chem. 1, 2.

180, 181. Assigned Topics. I, II, S. 1-4 hr. per semester.

241. Fundamental Bacteriology. S. PR: Chem. 1, 2.

246. Dairy Bacteriology. I. 4 hr. PR: Bact. 141 or 241.

248. Sanitary Bacteriology. I. 3 hr. PR: Bact. 141 or 241.

Graduate Division

314. Soil Microbiology. II. 4 hr. PR: Bact. 141 or 241, and organic chemistry.

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

380, 381, 382, 383. Research. I, II, S. 1-6 hr.

Entomology

Undergraduate Division

152. Forest Entomology. II. 3 hr. PR: For. 112.

180, 181. Assigned Topics. I, II. 1-4 hr. PR: Entom. 202 or equivalent.

202. Agricultural Entomology. II. 4 hr. PR: Biol. 1, 2.

203. Economic Entomology. II. 3 hr. PR: Entom. 202.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 2-6 hr. PR: Entom. 202.

380, 381, 382, 383. Research. I, II, S. 1-6 hr. per semester.

Plant Pathology

Undergraduate Division

153. Forest Pathology. I. 4 hr. PR: Biol. 2, For. 112.

180, 181. Assigned Topics. I, II. 1-4 hr. per semester.

201. General Plant Pathology. I. 4 hr. PR: Bact. 141 or 241.

202. Principles of Plant Pathology. II. 4 hr. PR: Bact. 141 or 241 and either Pl. Path. 153, 201, or 203, or consent.

203. Mycology. I. 4 hr.

204. Diseases of Fruit Crops. I. 2 hr. PR: Pl. Path. 201.

205. Diseases of Ornamentals. II. 2 hr. PR: Pl. Path. 201 or 153.

206. Diseases of Vegetable Crops. II. 2 hr. PR: Pl. Path. 201.

207. Diseases of Field and Forage Crops. II. 2 hr. PR: Pl. Path. 201.

208. Application of Sprays, Dusts, and Fumigants. II. 2 hr. PR: Entom. 202 or Pl. Path. 201 and Hort. 1, 2, or 229, or its equivalent.

209. Nematology. I. 3 hr. PR: Pl. Path. 201 or consent.

Graduate Division

312. Pathological Anatomy. I. 3 hr. PR: Pl. Path. 153, 201, or Biol. 211.

313. Insect Transmission of Plant Diseases. I. 3 hr. PR: Pl. Path. 153, 201, or Entom. 202.

315. Advanced Forest Pathology. II, 3 hr. PR: Pl. Path. 203 and either Pl. Path. 153 or Pl. Path. 201.

320, 321, 322, 323. Special Topics. I, II, S. 2-4 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

330. Physiology of the Fungi. II. 4 hr. PR: Organic chemistry, mycology, and bacteriology, or consent.

340. Taxonomy of the Fungi. I. 3 hr. PR: Pl. Path. 203.

350, 351. Seminar. I, II. 1 hr. per semester.

380, 381, 382, 383. Research. I, II, S. 1-6 hr.

POULTRY SCIENCE

Undergraduate Division

103. Poultry Feeding and Management. II. 3 hr.

105. Poultry Judging. I. 2 hr.

106. Preparation and Grading of Eggs and Poultry for Market. I. 2 hr.

108, 109, 110. Poultry Plant Experience. I, II, S. 1 hr.

180, 181. Assigned Topics. I, II. 1-4 hr. per semester

195. Senior Seminar. II. 1 hr.

201. Advanced Poultry Production. I. 3 hr. PR: P.S. 1 or equivalent for all students; P.S. 106 or An. & V.S. 101 for graduate credit.

202. Principles of Biological Radionuclide Science. I, S. 3 hr.

212. Breeding and Incubation: Principles and Practices. I. 3 hr. PR: Gen. 221 or consent.

213. Turkey Production. I. 3 hr. PR: P.S. 1 or equivalent for all students; P.S. 103 or An. & V.S. 101 for graduate credit.

214. Biological Radionuclide Methods. I, II. 3 hr. PR: P.S. 1, Chem. 1, 2, 131, or consent.

Graduate Division

320, 321, 322, 323. Special Topics. I, II, S. 1-4 hr. (1 hr. credit in special cases only). (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

330. Mineral Metabolism. II. 3 hr. PR: Chem. 1, 2, 31, Biochem. 290-291, or consent.

350, 351, 352, 353. Seminar. I, II. 1 hr.

370. Methods of Animal Research. I, II. 3 hr. (With Animal and Dairy Science.)

380, 381, 382, 383. Research. I, II. 1-6 hr. per semester.

Aerial photograph interpretation, with particular emphasis on forestry application, is an essential part of the training of each forestry student.

Division of Forestry

1, 2. The Profession of Forestry. I and II. 1 hr. per semester.

3, 4, 5, 6. Forestry Convocation. I and II. No credit.

11. Silvics. II. 3 hr. PR or concurrent: Bot. 67, 68.

21. Forest Mensuration. II. 4 hr. PR: Math. 2, 4.

46, 146. Ornithology. II. 2 hr. PR: Biol. 1 and 2, or consent.

106. Forest Surveying and Mensuration Field Practices. S. 5 hr. PR: Bot. 67, C.E. 5, For. 21.

107. Forest Management, Utilization, and Wildlife Practices. S. 5 hr. PR: For. 106.

112. Silvicultural Systems. I. 3 hr. PR: For. 11.

113. Seeding and Planting. II. 3 hr. PR: For. 11.

114. Principles of Forest Economics. II. 3 hr. PR: Econ. 1.

116. Regional Silviculture. I. 2 hr. PR: For. 11; PR or concurrent: For. 112.

122. Forest Mensuration. II. 3 hr. PR: For. 21.

123. Forest Management. I. 4 hr. PR: Summer Camp; PR or concurrent: For. 112.

124. Forest Finance. I. 3 hr. PR: For. 114.

125. Forest Policy and Administration. II. 3 hr. PR: Upperclass status.

126. Forest Measurement by Aerial Photographs. I, II. 2 hr. PR: For. 21.

127. Forest Management Plans. II. 2 hr. PR: For. 123.
131. Wood Identification. I. 3 hr. PR: Bot. 67, 68.
132. Properties of Wood. I. 3 hr. PR: For. 131.
133. Lumbering. II. 3 hr. PR or concurrent: For 21.
134. Forest Products. II. 3 hr. PR or concurrent: For. 131.
135. Seasoning and Preservation. II. 4 hr. PR: For. 131.
137. Grading Wood Products. II. 3 hr. PR: For. 21, 131.
138. Advanced Lumbering. II. 3 hr. PR: For. 133.
139. Marketing Forest Products. II. 3 hr. PR: For. 134.
140. West Virginia's Natural Resources. II. 3 hr.
141. Wildlife Management. II. 3 hr. PR: Bot. 61 and Biol. 2.
142. Recreational Developments. II. 2 hr. PR: C.E. 6, Summer Camp.
143. The Forest Range. II. 2 hr. PR: C.E. 5
144. Forest Zoology. II. 3 hr. PR: Biol. 2 or Zool. 2.
145. Life Histories of Game Animals. II. 3 hr. PR: Biol. 2 or Zool. 2.
151. Forest Protection. I. 2 hr. PR: Upperclass status.
170. 171, 172, 173. Forestry Problems. I, II. 1 hr. ea., 4 hr. max. PR: Senior status.
183. Farm Woods Management. II. 3 hr. (Professional forestry students may not take this course for credit).

(NOTE: Detailed information concerning the Division of Forestry may be obtained in the 1961-62 Forestry *Announcements*.)

Division of Home Economics

FOODS AND NUTRITION

1. Sec. 1. Elementary Nutrition. I, II. 2 hr.
1. Sec. 2. Elementary Nutrition. I. 2 hr.
21. Nutrition and Foods for Nurses. I. 3 hr.
101. Nutrition. II. 3 hr. PR: Biochem. 139 or consent.
121. Nutrition Work With Children. II. 3 hr. PR: H.E. 106 or concurrent: H.E. 106.
181. Problems in Nutrition. I, II. 1-4 hr. PR: Consent.
201. Diet Therapy. I, S. 3 hr. PR: H.E. 101, Zool. 171, Biochem. 139.
211. Readings in Nutrition. II. 2 hr. PR: H.E. 101 or consent.
221. Community Nutrition Problems. I. 2 hr. PR: Consent.
231. Nutrition Education for Elementary Teachers. II. 2 hr. PR: Consent.
281. Problems in Nutrition. I, II. 1-4 hr. PR: Consent.
301. Graduate Nutrition Seminar. I, II, S. 1 hr. PR: H.E. 101 and consent.
361. Nutrition Research. I, II, S. 6 hr. PR: H.E. 101, Chem. 6 or 106 or consent.
15. Food Selection and Preparation. I, II. 4 hr. PR: H.E. 1, Chem. 2, or Phys. Sci. 2, or consent.
105. Planning and Serving Family Meals. I or II. 2 hr.
115. Meal Planning, Preparation, and Service. I, II. 3 hr. PR: H.E. 15 or consent.

125. Foods for Special Occasions. II. 2 hr. PR: H.E. 15 or consent (Alt. years.) Offered in 1961-62.

185. Problems in Foods. I, II. 1-4 hr. PR: Consent.

205. Experimental Cookery. II. 3 hr. PR: H.E. 15, Chem. 131 (Alt. years). Offered in 1962-63).

215. Food Preservation. I. 2 hr. PR: H.E. 15 (Alt. years). Offered in 1961-62.

285. Problems in Foods. I, II. 1-4 hr. PR: Consent.

INSTITUTION MANAGEMENT

108. Quantity Cookery. I. 3 hr.

118. Institution Accounting. II. 2 hr.

128. Institution Buying. I. 2 hr. PR: H.E. 108

138. Institution Organization and Management. II. 3 hr. PR: H.E. 108.

148. Laboratory Practice in Institution Management. I, II. 2 hr. PR: H.E. 138, and consent.

188. Problems in Institution Management. I, II. 1-4 hr. PR: Consent.

288. Problems in Institution Management. I, II. 1-4 hr. PR: Consent.

TEXTILES AND CLOTHING

2. Elementary Clothing. I, II. 2 hr.

12. Intermediate Clothing. I, II. 3 hr. PR: H.E. 2 or exemption from H.E. 2 by placement test.

17. Textiles. I, II. 3 hr.

102. Clothing Selection. I. 2 hr. PR: H.E. 3 or consent.

117. Textile Buying. II. 2 hr. PR: H.E. 17.

132. Clothing Techniques. II. 2 hr. (Not open to home economics students).

182. Problems in Clothing Construction. I, II. 1-4 hr. PR: Consent.

187. Problems in Textiles. I, II. 1-4 hr.

212. Advanced Clothing Construction. II. 2 hr. PR: H.E. 12, 17, 233, or consent.

217. Readings in Textiles. I. 2 hr. PR: H.E. 17.

222. Tailoring. II. 3 hr. PR: H.E. 12, 17

282. Problems in Clothing. I, II. 1-4 hr. PR: Consent.

287. Problems in Textiles. I, II. 1-4 hr. PR: Consent.

APPLIED ART

3. Art Applied to Personal Problems. I, II. 2 hr.

23. Present-Day Housing. I, II. 2 hr. PR: H.E. 3 or consent.

113. House Decoration. II. 3 hr. (Not open to home economics students).

123. Home Planning and Furnishings. I, II. 4 hr. PR: H.E. 23.

133. Home Crafts. I, II. 2 hr.

183. Problems in Related Art. I, II. 1-4 hr. PR: Consent.

233. Costume Design. I. 2 hr. PR: H.E. 2, 117.

283. Problems in Related Art. I, II. 1-4 hr. PR: Consent.

HEALTH AND CHILD CARE

106. Child Development. I, II. 3 hr. PR: Psych. 1 or 3, or Ed. 105 or 106. (Must be taken at W.V.U.).

116. Home Nursing. II. 2 hr.

126. Infant Development. I and II. 2 hr.

186. Problems in Child Development. II. 1-3 hr. PR: H.E. 106.

206. Observation and Participation in Nursery School. II. 1-3 hr. PR: H.E. 106.

266. Needs of Adolescents. I. 3 hr.

276. Seminar in Child Development. II. 2 hr. PR: Senior standing and H.E. 106. Offered 1961-62 and alt. years.

286. Problems in Child Development. I, II. 1-4 hr. PR: Consent.

376. Thesis for the Degree of Master of Science in Home Economics With a Major in Child Development. I, II. 6 hr. PR: H.E. 309 and consent.

HOME MANAGEMENT

4. Elementary Management. I, II. 2 hr.

104. Nutrition and Home Management. II. 3 hr. Offered in 1962-63 and alt. years.

114. Management of Family Living. I, II. 2 hr.

124. Demonstration Techniques. I. II. 2 hr. PR: Minimum of 4 hr. in each of four areas of home economics, or consent.

134. Principles of Home Management. I, II. 2 hr.

184. Problems in Home Management. I, II. 1-4 hr. PR: Consent.

214. Family Economics. I. 2 hr. PR: 13 hr. of home economics.

234. Home Management Laboratory. I, II. 3 hr. PR: H.E. 15, 106, 114; 115 recommended. (Must be taken at W.V.U.).

254. Household Equipment. II. 2 hr.

264. Family Development. II. 2 hr. PR: H.E. 114 or consent.

284. Problems in Home Management. I, II. 1-4 hr. PR: Consent.

HOME ECONOMICS EDUCATION

Ed. 262. Vocational Home Economics in Secondary Schools. I, II. 3 hr. PR: 6 hr. of education, 30 hr. of home economics.

209. Evaluation in Home Economics. II. 3 hr. PR: 30 hr. of home economics, 7 hr. of education.

219. Adult Education in Homemaking. I. 3 hr. PR: 30 hr. of home economics, 7 hr. of education.

249. History of Home Economics. I. 1 hr.

279. Seminar in Home Economics Education. I. 2 hr. PR: Senior standing and 6 hr. in Education

309. Research Methods. I, II, S. 2 hr. (Must be taken at W.V.U.).

319. Home Economics Curriculum. II. 3 hr. PR: Experience in teaching home economics and consent.

329. Supervision in Home Economics. II. 2 hr. PR: Teaching experience and consent.

360. Problem Report for the Degree of Master of Home Economics. I, II, S. 1-3 hr. PR. H.E. 309.

389. Problems in Home Economics Education. I, II. 1-4 hr. PR: Consent.

The University Nursery School provides laboratory facilities for Home Economics students to observe pre-school children in four-hour-a-week laboratory periods. Students taking Health and Child Care courses also learn home nursing, needs of adolescents, problems in child development, and problems and participation in nursery school.

HOME ECONOMICS HONORS PROGRAM

100. Home Economics Honors Program. II. 3 hr. PR: Beginning second semester junior standing; GPA (over-all) 3.0 or better; GPA in Home Economics courses 3.2 or better. At least one academic year's work in residence at W.V.U.

110. Home Economics Honors Program. I. 3 hr. PR: Beginning first semester senior standing; GPA (over-all) 3.0 or better; GPA in Home Economics courses 3.25 or better and Home Economics 100.

120. Home Economics Honors Program. II. PR: Beginning second semester senior standing; GPA (over-all) 3.0 or better; GPA in Home Economics courses 3.25 or better; Home Economics 110.

The College of Arts and Sciences

INTEGRATED STUDIES

The Humanities

1, 2. Introductory General Course. I, II. 4 hr. per semester.

141. Great Books (First Course). I. 3 hr.

142. Great Books (Second Course). II. 3 hr.

181, 182. American Civilization. I, II. 3 hr. per semester.

The Social Sciences

1, 2. Introductory General Course. I, II. 4 hr. per semester.

The Biological Sciences

1, 2. Introductory General Course. I, II. 4 hr. per semester.

207. History of Biology. I. 3 hr. PR: 1 yr. of biology or equivalent.

208. Great Texts in Biology. II. 1 hr. PR: Biol. 2 or equivalent.

The Physical Sciences

1, 2. Introductory General Course. I, II. 4 hr. per semester.

200. Workshop in Physical Sciences. I. 2 hr. PR: 12 hr. of course work in physical sciences.

201. Physical Science for High School Teachers. I, S. 3 hr. PR: Physical science teaching experience.

202. Physical Science for High School Teachers. S, II. 3 hr. PR: Phys. Sci. 201 or equivalent.

Communication

English 0 (Communication). Corrective Course. I, II. 3 hr.

English 1 (Communication). Basic Course in Composition and Rhetoric. I, II. 3 hr.

English 2 (Communication). Basic Course in Composition and Rhetoric. I, II. 3 hr. PR: Eng. 1 (Communication).

English 21 (Communication). The Use of Language. I, II. 3 hr. PR: Eng. 1 and 2, Eng. 1 and 2 (Communication).

ART

1. Creative Expression in Fine Arts. I, II, S. 2 hr.

2. Creative Expression in the Applied Arts. I, II, S. 2 hr.

11 or 111, 12 or 112. Drawing. I, II. 3 hr. per semester.

30. Appreciation of the Fine Arts. I or II. 2 hr.

105, 106. Survey of Art. I, II. 3 hr. per semester.

113, 114. Painting. I, II. 3 hr. PR: Art 11, 12.

115. Scientific Drawing. I, II. 3 hr.

117, 118. Painting. I, II. 3 hr. PR: Art 113, 114.

121, 122. Fundamentals of Design. I, II. 3 hr. per semester.

123. Lettering. I or II. 2 hr.

126. Modeling. I, II. 2 hr. PR: Consent.

127. Crafts. I or II. 2 hr.

130. Appreciation of the Arts. I or II. 3 hr.

151, 152. Special Problems. I, II. 1-3 hr. per semester.

211. Figure Drawing. I, II, S. 3 hr. PR: Art 11 or 111, 12 or 112, and/or consent.

213. Painting. I, S. 3 hr. PR: Art 113, 117 and consent.

214. Painting. I, II, S. 3 hr. PR: Art 213 and consent.

216. Painting. II, S. 3 hr. PR: Art 114, 118 and consent.

217. Painting. I, II, S. 3 hr. PR: Art 216 and consent.

220. Art and the Schools. I, II, S. 2 hr. PR: 4 hr. of art, including a minimum of 2 hr. of studio.

221. Administration and Supervision of Art. I, II, S. 2 hr. PR: Art 220.

Courses in Art include technical courses in drawing, painting, and design; a non-technical course in art appreciation; courses for Art teachers and other school personnel; and lectures on history of the arts. A scientific drawing course is offered for students in pharmacy, predentistry and premedicine, and other scientific disciplines.

225. Secondary School Art. I, II, S. 3 hr. PR: Art 11 or 111, 12 or 112, 113, 114, 121, 122, and consent.

241. Medieval Architecture. I, II, S. 3 hr. PR: Art. 105, 106.

250. Renaissance Painting. I, II, S. 3 hr. PR: Art 105, 106.

260. Modern Painting. II, S. 3 hr. PR: Art 105, 106.

271. American Architecture. I, II, S. 3 hr. PR: Art. 105, 106.

290. Study of Original Works of Art. S. 6 hr. PR: Art 105, 106 and consent.

350, 351. Special Topics. I, II, S. 1-3 hr. per semester. PR: Consent.

391, 392. Thesis. I, II, S. 2-3 hr. per semester. PR: Approval of student's committee.

BIOLOGY

Lower Division

1, 2. General Biology. I, II. 4 hr. per semester.

51. Microbiology. I. 3 hr.

Upper Division

191. Honors Course. II. 3 hr. Second semester of junior year.

192. Honors Course. I. 3 hr. PR: Biol. 191.

193. Honors Course. II. 3 hr. PR: Biol. 192.

201, 202. Biology Workshop. I, II. 2 hr. per semester. PR: Biol. 2 or equivalent.

203. Natural History. S. 3 hr. PR: General biology or equivalent.

204. Biology Workshop. I. 3 hr. PR: Biol. 2 or equivalent.

205. Principles of Evolution. I, S. 3 hr. PR: Biol. 2, Bot. 2, or Zool. 2.

206. Modern Concepts in Biology. S. 3 hr. PR: Biol. 2 or equivalent.

207. History of Biology. I. 3 hr. PR: Biol. 2.

208. Great Texts of Biology. II. 1 hr. PR: Biol. 2 or equivalent.

209. The Literature of Biology. I. 1 hr. PR: Biol. 2 or equivalent.

210. Biological Sciences for High School Teachers. S. 2-3 hr. PR: Biol. 206 or equivalent.

211. Microtechnique. I. 3 hr. PR: Biol. 2, Bot. 2, or Zool. 2 or equivalent.

212. Biological Preparations. S. 3 hr. PR: Biol. 1.

215. Cytology. II. 4 hr. PR: Biol. 2.

221. General Ecology. I. 3 hr. PR: Zool. 2 or equivalent.

Graduate Division

301, 302. Seminar. I, II. 1 hr. per semester.

311. Advanced Microtechnique. II. 1-3 hr. PR: Consent.

321, 322. Seminar in Ecology. I, II. 2 hr. per semester. PR: Bot. 221 or Zool. 221 and consent.

376, 377. Seminar in Physiology. I, II. 2 hr. per semester. PR: Biol. 274, Bot. 273, Zool. 271, or Pl. Path. 330, and consent.

BOTANY

Lower Division

1, 2. General Botany. I, II. 4 hr. per semester.

61. Systematic Botany. I. 2 hr.

67, 68. Dendrology. I, II. 3 hr. per semester. PR: Biol. 2.

71. Plant Physiology. II. 2 hr.

Upper Division

104. The Plant Kingdom. II. 4 hr.

161. Systematic Botany. II. 4 hr.

191. Honors Course. II. 3 hr. Second semester of junior year.

192. Honors Course. I. 3 hr. PR: Bot. 191.

193. Honors Course. II. 3 hr. PR: Bot. 192.

218. Economic Botany. II. 3 hr. PR: Biol. 2 or Bot. 2.

221. Plant Botany. I. 4 hr. PR: Biol. 2 or Bot. 2.

224. Plant Communities. S. 3 hr. PR: Biol. 2 or equivalent.

Graduate students will find ample opportunity to participate in research work under the supervision and guidance of top men in their fields. Students in the biological sciences and geology may spend summer terms at Camp Arthur Wood, Greenbrier County, collecting and studying specimens in the field.

227. Geographic Botany. I, S. 2 or 3 hr. PR: Bot. 2 or Biol. 2.

231. Plant Morphology. I. 4 hr. PR: Biol. 2 or Bot. 2.

232. Plant Morphology. II. 4 hr. PR: Biol. 2 or Bot. 2.

235. Plant Anatomy. I. 4 hr. PR: Bot. 2 or equivalent.

250. Fresh Water Algae. I. 4 hr. PR: Bot. 1 and 2 or Biol. 1 and 2.

255. Bryophytes. II. 2 hr. PR: Bot. 2 or Biol. 2.

256. Vascular Cryptograms. II. 4 hr. PR: Bot. 1 and 2 or Biol. 1 and 2.

261. Advanced Systematic Botany. II. 3 hr. PR: Bot. 161 or equivalent.

262. Advanced Systematic Botany. I. 3 hr. PR: Bot. 161 or equivalent.

263. Taxonomy of Vascular Plants. S. 3 hr. PR: Biol. 2 or equivalent.

265. Aquatic Seed Plants. I. 3 hr. PR: Biol. 2 or equivalent.

266. Flora of West Virginia. II, S. 3 hr. PR: Biol. 2 or equivalent.

273. Plant Physiology. I. 4 hr. PR: Biol. 2 or Bot. 2 and Chem. 1 and 2, or equivalent.

296, 297. Special Topics. I, II. 1-4 hr. per semester. PR: Consent.

Graduate Division

316. Cytotaxonomy. II. 3 hr. PR: Bot. 161, Biol. 2, Gen. 221, and consent.

325. Experimental Ecology. II. 2-4 hr. PR: Biol. 1, Bot. 161, and Bot. 221 or equivalent.

331. Plant Embryology. I. 2 hr. PR: Biol. 2 or Bot. 2 and consent.

351, 352. Problems in Plant Taxonomy. I, II. 1-6 hr. PR: Bot. 261, 262, or equivalent.

368. Agrostology. I. 2 hr. PR: Bot. 161 or equivalent.

374. Advanced Plant Physiology. II. 2-3 hr. PR: Bot. 273 or equivalent.

391, 392, 393, 394. Research. I, II. 1-6 hr.

ZOOLOGY

Lower Division

1, 2. General Zoology. I, II. 4 hr.

31. Human Anatomy. I. 4 hr.

Upper Division

171. Human Physiology. II. 4 hr.

191. Honors Course. I. 3 hr. Second semester of junior year.

192. Honors Course. I. 3 hr. PR: Zool. 191.

193. Honors Course. II. 3 hr. PR: Zool. 192.

210. Animal Behavior. I. 3 hr .PR: Zool. 2 or equivalent.

222. Field Studies of Invertebrates. S. 3 hr. PR: Biol. 2 or equivalent.

223. Field Studies of Vertebrates. S. 3 hr. PR: Zool. 2 or equivalent.

224. Limnology. I. 4 hr. PR: Zool. 2 or equivalent.

231. Comparative Anatomy. I. 5 hr. PR: Zool. 2 or equivalent.

232. Vertebrate Embryology. II. 5 hr. PR: Zool. 2 or equivalent.

233. Comparative. Histology. II. 3 hr. PR: Zool. 231, 232.

235. Comparative Developmental Anatomy. II. 3 hr. PR: Zool. 231.

236. Comparative Neuroanatomy. II. 3 hr. PR: Zool. 2, 231.

237. Osteology. I. 2 hr. PR: Zool. 2 or equivalent.

250. Principles of Animal Systematics. I. 2 hr. PR: Zool. 2 or Biol. 2.

251. Invertebrate Zoology. I. 4 hr. PR: Zool. 2 or equivalent.

255. Introduction to Human Parasitology. II. 4 hr. PR: Zool. 2 or equivalent.

263. Ichthyology. II. 3 hr. PR: Zool. 2 or equivalent.

264. Fisheries Biology. II. 4 hr. PR: Zool. 2 or equivalent.

265. Ornithology. II. 3 hr. PR: Zool. 1 or equivalent, and consent.

271. Vertebrate Physiology. I. 4 hr. PR: Zool. 2 or equivalent.

272. Physiology of the Endocrines. I. 4 hr. PR: General zoology or general biology. comparative anatomy, and organic chemistry.

273, 274. Cellular Physiology. I, II. 4 hr. per semester. PR: Biol. 2 or Zool. 2; Chem. 238 and Physics 2.

276. Comparative Physiology. II. 4 hr. PR: Zool. 273 or equivalent.

296, 297. Special Topics. S. 1-4 hr. PR: Consent.

Graduate Division

331. Mammalian Anatomy. I. 3 hr. PR: Zool. 231, 232, 233, 235, 236, 237, and consent.

332. Anatomy of the Integument. I. 2 hr. PR: Zool. 231, 232, 233, 234, 235, and consent.

334. Anatomy of the Circulatory and Respiratory Systems. II. 3 hr. PR: Zool. 231. 232, 235, and consent.

335. Anatomy of the Urogenital System. I. 3 hr. PR: Zool. 23, 232, 235, and consent.

336. Advanced Comparative Neuroanatomy. II. 3 hr. PR: Zool. 231, 232, 233, 236, and consent.

337. Advanced Osteology. S. 3 hr. PR: Zool. 231, 237, and consent.

338. Analogies and Homologies. I. 3 hr. PR: Zool. 231, 232, 233, 235, 236, 237, 331, 334, 336, 337, and consent.

339. Anomaloies and Variations. II. 3 hr. PR: Zool. 231, 232, 233, 235, 236, 237, 331, 334, 335, 336, 337, 338, and consent.

351. Advanced Invertebrate Zoology. I, II. 1-4 hr. PR: Zool. 251 and consent.

391, 392, 393, 394. Research. I, II. 1-6 hr.

396, 397. Special Topics. I, II. 1-3 hr. per semester.

CHEMISTRY

Lower Division

1. Inorganic Chemistry. I, II. 4 hr.

2. Inorganic Chemistry. I, II. 4 hr. PR: Chem. 1.
(Note: Chem. 1 and Chem. 2 are prerequisite to all other courses in chemistry.)

5 or 105. Qualitative Analysis I. 4-5 hr.

6 or 106. Quantitative Analysis. II. 4-5 hr.

15 or 115. Quantitative Analysis. I, II. 3 hr.

31 or 131. Organic Chemistry. I. 4 hr.

63 or 163. Physical Chemistry. I. 4 hr.

Upper Division

141, 142. Assigned Topics. I, II. 1-5 hr. PR: Consent.

170. Glass Working for the Chemical Laboratory. II. 2 hr. PR: Chemistry major or consent.

201. Intermediate Inorganic Chemistry. I. 3 hr. PR: Chem. 6 or 106.

208. Quantitative Analysis. I. 3 hr. PR: Chem. 6 (5 hr.), Physics 2 or 112, Math. 5.

211. Intermediate Inorganic Lectures. S. 2 hr. PR: 12 hr. of chemistry.

212. Intermediate Inorganic Laboratory. S. 2 hr. PR: Chem. 211.

214. Qualitative Organic Analysis. I. 3 hr. PR: Chem. 238.

215. Quantitative Organic Analysis. II. 3 hr. PR: Chem. 238.

233. Organic Chemistry. I, II. 4-5 hr. PR: Chem. 6 or 15.

238. Organic Chemistry. I, II. 4-5 hr. PR: Chem. 233.

243, 244. Selected Topics. I. II. 1-5 hr. PR: Consent.

247. Stereochemistry. I. 2 hr. PR: Chem. 238.

260. Physical Chemistry. I. 4-5 hr. PR: Chem. 233, Physics 2 or 112, and Math. 108.

261. Physical Chemistry. II. 4-5 hr. PR: Chem. 260.

262. Chemistry of Colloids. II. 3 hr. PR: Chem. 115 or equivalent.

273. Chemistry Literature. I, II. 2 hr. PR: Chem. 6 and 238.

274. History of Chemistry. II. 2 hr. PR: Chem. 6 or equivalent, and organic chemistry.

275. Workshop in Chemistry, Inorganic. S. 2 hr. PR: 12 hr. of chemistry.

276. Workshop in Chemistry, Organic. S. 2 hr. PR: 4 hr. of organic chemistry.

277. Chemistry of Natural Products. II. 2 hr. PR: Chem. 238 or equivalent.

278. Modern Chemical Principles. I. 2 hr. PR: Chem. 2 or equivalent.

279. Modern Chemical Principles. II. 2 hr. PR: Chem. 2 or equivalent.

285. Nuclear Chemistry. II. 3 hr. PR: Chem. 2, Math. 107.

Graduate Division

301. Advanced Inorganic Chemistry. I. 3 hr. PR: Chem. 261.

302. Advanced Inorganic Chemistry. II. 3 hr. PR: Chem. 301.

317. Polymer Chemistry. II. 3 hr.

343. Advanced Organic Chemistry. I. 4 hr. PR: Chem. 238 or equivalent.

345. Theories of Organic Chemistry. II. 2 hr. PR: Chem. 343.

350. Heterocylic Chemistry. II. 2 hr. PR: Chem. 343.

367. Advanced Physical Chemistry. II. 2-4 hr. PR: Chem. 261.

368. Advanced Physical Chemistry. I. 2 hr. PR: Chem. 367.

369. Chemical Kinetics. I or II. 2 hr. PR: Chem. 261.

370. Quantum Chemistry. I. 3 hr. PR: Math. 108, Physics 112, Chem. 261.

380. Electrochemistry. I or II. 3 hr. PR: Chem. 238, 261.

383. Advanced Quantitative Analysis. I or II. 3 hr. PR: Chem. 208, 238, 261.

388. Valence and Molecular Structure. I or II. 2 hr. PR: Math. 108, Physics 112, Chem. 261.

389, 390. Chemical Thermodynamics. I. 2 hr. PR: Chem. 261 and Math. 108.

391, 392. Journal Meeting and Seminar. I, II. 1 hr. per semester.

395, 396. Special Topics. I, II. 1-3 hr. per semester.

397, 398, 399. Research. I, II. 1-10 hr.

CLASSICS

Lower Division

1. Elementary Latin. I. 3 hr.

2. Elementary Latin. II. 3 hr.

3. Intermediate Latin. I. 3 hr. PR: Latin 2 or two units of high school Latin.

4. Cicero's Orations. II. 3 hr. PR: Latin 3, or two units of high school Latin.

5. Latin for Law Students: Selections from Legal Latin and the Institutes of Justinian. II. 3 hr. PR: Latin 3 or two units of high school Latin.

12. Selections from Roman Prose. I. 3 hr. PR: Latin 4 and 6 or equivalent.

21. Roman Letterwriting. I. 3 hr. PR: Latin 4 and 12 or four units of high school Latin.

22. Selections from Roman Poetry. II. 3 hr. PR: Latin 4 and 12 or equivalent.

Upper Division

101. Classical Myths in the Modern World. I. 2 hr.

102. Classical Culture and the Modern World. II. 2 hr.

121. Honors Course. II. 3 hr. PR: Second semester of junior year with major in Classics.

122. Honors Course. I. 3 hr. PR: Classics 121.

123. Honors Course. II. 3 hr. PR: Classics 122.

201. The Story and Novel. I. 3 hr. PR: Latin 12 and 22 or equivalent.

202. Drama. II. 3 hr. PR: Latin 12 and 22 or equivalent.

203. Oratory. II. 3 hr. PR: Latin 12 and 22 or equivalent.

227. Vulgar Latin—Prose and Verse. I. 3 hr. PR: Latin 12 and 22 or equivalent.

231. Satire. II. 3 hr. PR: Latin 12 and 22 or equivalent.

234. History. I. 3 hr. PR: Latin 12 and 22 or equivalent.

235. Epic. I. 3 hr. PR: Latin 12 and 22 or equivalent.

236. Philosophy. II. 3 hr. PR: Latin 12 and 22 or equivalent.

Graduate Division

381, 382. Seminar. Introduction to Research. I, II. 3 hr. per semester. PR: At least three courses of upper division Latin or equivalent.

383, 384. Thesis. I, II. 3 hr. per semester.

Greek

Lower Division

1. Elementary Greek. I. 3 hr.
2. Selections from Greek Literature (Prose). II. 3 hr.
3. Selections from Greek Literature (Poetry). I. 3 hr.
4. Selections from Hellenistic and Biblical Greek Literature. II. 3 hr.
5. Selections from Medieval and Modern Greek Literature. I. 3 hr.
6. Selections from Attic Orators. II. 3 hr.

Upper Division

207, 208. Special Topics. I, II. 1-3 hr. PR: Greek 6.

ECONOMICS

Lower Division

1. Principles of Economics. I, II. 3 hr.
2. Principles of Economics. I, II. 3 hr. PR: Econ. 1.

(Note: Economics 1 and Economics 2 are prerequisite to all upper division courses.)

Upper Division

111. Money and Banking. I, II. 3 hr.

115. Labor Problems. I, II. 3 hr.

119. Economics of Consumption. I. 3 hr.

125. Statistics. I, II. 3 hr. PR: Math. 2, 3 or 8.

205. Current Economic Problems. S. 3 hr. PR: Econ. 1 and 2 or consent.

209. Problems in Economics. I, II. 1-3 hr.

210. Comparative Economic Systems. II. 3 hr.

217. Trade Unionism. 3 hr. PR: Econ. 115 or consent.

218. Collective Bargaining. II. 3 hr. PR: Econ. 115 or consent.

219. The Economics of Wages and the Labor Market. II. 3 hr. PR: Econ. 115 or consent.

221. Economic Theory. I. 3 hr.

222. History of Economic Thought. II. 3 hr.

225. Transportation. I. 3 hr.

230. Public Utilities. II. 3 hr.

235. Economic Growth and Business Cycles. I. 3 hr. PR: Econ. 125 or consent.

241. Public Finance. I. 3 hr.

245. Government and Business. II. 3 hr.

250. International Trade. II. 3 hr. PR: Consent.

256. Advanced Statistics. II. 3 hr. PR: Econ. 125 or equivalent.

Graduate Division

310. Contemporary Economic Theory. II. 2 hr. PR: Econ. 221.

315. Bibliography and Research. I. 2 hr.

319. Seminar in Economics. II. 2 hr.

331, 332. Thesis. I, II. 2 or 3 hr.

ENGLISH LANGUAGE AND LITERATURE

Lower Division

0. English Composition. I, II. 3 hr.

1. Composition and Rhetoric. I, II. 3 hr.

2. Composition and Rhetoric. I, II. 3 hr. PR: English 1.

3. Survey: English Literature. I, II. 3 hr.

4. Survey: English Literature. I, II. 3 hr.

5. American Literature. I, II. 3 hr.

6. American Literature. I, II. 3 hr.

13. Expository Writing. I, II. 2 hr. PR: English 1 and 2.

15. Description and Narration. I, II. 3 hr. PR: English 1, 2.

18. Advanced English Composition. I, II. 3 hr. PR: English 1 and 2.

25. Introduction to Poetry. I, II. 3 hr.

26. Introduction to Fiction. I, II. 3 hr.

27. Introduction to Drama. I, II. 3 hr.

Upper Division

100. Honors Course. I, II. 3 hr. PR: Second Sem. Junior standing; average 3.0 or better.

115. Creative Writing III. Narration. (Short Story). II. 3 hr.

123. Business English. I, II. 3 hr.

125. Advanced Composition. I. 3 hr.

Courses in English, designed to develop personal skill in self-expression and communication, are taken by each freshman in the University. Students may elect courses beyond the minimum requirement, or choose to major in English. Majors study Shakespeare, Chaucer, history of the language, and American or English literature.

126. Advanced Composition. I, II. 3 hr.
129. Words and Usage. II. 3 hr.
138. English Literature, 1660-1744. I. 3 hr.
139. English Literature, 1755-1798. I. 3 hr.
140. Elizabethan Poetry and Prose. I. 3 hr.
141. Literature of the Seventeenth Century. II. 3 hr.
142. Shakespeare. I, II. 3 hr.
160. Contemporary Literature. I. 2 hr.
161. Contemporary Literature. II. 2 hr.
163. English Literature. I, II. 3 hr.
164. English Literature. I, II. 3 hr.
166. American Fiction. I. 3 hr.
173. Poetry. I, II. 2 hr.
175. The Short Story. I. 2 hr.
180. Bible Literature: Old Testament. I. 3 hr.
181. Bible Literature: New Testament and Apocrypha. II. 3 hr.
182. Masterpieces of English Literature. II. 3 hr.
198. Honors Course. I, II. 3 hr. PR: Completion of English 100.
199. Honors Course. I, II. 3 hr. PR: English 100, 198.

Upper Division and Graduate Courses

222. Modern American Biography. I. 3 hr.

223. Modern English Biography. II. 3 hr.

224. Literary Criticism. I, II. 3 hr.

225. Recent Literary Criticism. I, II. 3 hr.

228. Advanced Grammar. I, II. 3 hr.

230. History of the English Language. I. 3 hr.

231. Old English. I. 3 hr.

232. Beowulf. II. 3 hr. PR: English 231.

234. Chaucer. I. 3 hr.

235. Shakespeare. I. 3 hr.

239. Southern Writers. II. 3 hr.

242. Literature for Teachers. S. 3 hr.

243. Literature for Teachers. S. 3 hr.

244. Literature of the Sixteenth Century. I. 3 hr.

245. Literature of the Seventeenth Century. II. 3 hr.

247. Literature of the Eighteenth Century. I. 3 hr.

248. Literature of the Eighteenth Century. II. 3 hr.

249. The Romantic Movement. I. 3 hr.

250. American Romanticism. II. 3 hr.

252. Modern English Literature, 1881-1918. I. 3 hr.

253. Pre-Shakespearian Drama. I. 3 hr.

254. Elizabethan Drama. II. 3 hr.

255. Restoration and Eighteenth Century Drama. I. 3 hr.

256. Modern Drama. II. 3 hr.

257. Victorian Poetry. I. 3 hr.

258. Victorian Prose. II. 3 hr.

259. Dramatic Art of Shakespeare. II. 3 hr.

260. Studies in Shakespearian Comedy. I, II. 3 hr. PR: English 142, or consent.

261. Technique of Drama. I. 2 hr.

262. Study of Selected Authors (American). I, II. 3 hr.

263. Study of Selected Authors (English). I, II. 3 hr.

264. Spenser. I. 3 hr.

267. Milton. II. 3 hr.

270. American Poetry. I. 3 hr.

272. Folk Literature. II. 3 hr.

275. The English Novel to the Time of Scott. I. 3 hr.

276. The English Novel, 1832-1900. II. 3 hr.

278. Tragedy. II. 3 hr.

280. The Modern Novel. I, II. 3 hr.

291. Introduction to Literary Research. I, II. 2 or 3 hr.

Graduate Division

392. Seminar. I, II. 2 or 3 hr. PR: Specific courses to be approved by the instructor.

Geology majors and other students who are interested in paleontology and paleobotany study fossils and other evidences of plant and animal life in geologic periods of the earth's development. Basic and advanced courses in the geology of coal and petroleum attract students from throughout the nation.

GEOLOGY AND GEOGRAPHY

Geology

Lower Division

1. Physical Geology. I, II. 3 hr.
2. Physical Geology Laboratory. I, II. 1 hr.
3. Historical Geology. I, II. 3 hr. PR: Geol. 1.
4. Historical Geology Laboratory. I, II. 1 hr.

Upper Division

125. Geologic Drafting. I. PR: Geol. 2, 4.
127. Map Interpretation. I. 3 hr. PR: Geol. 2, 4.
128. Map Interpretation. II. 2 hr.
129. Cartography. II. 2 hr.
151. Structural Geology. I, II. 3 hr. PR: Geol. 3.
152. Structural Geology Laboratory. I, II. 1 hr. PR: Geol. 3.
161. Field Geology. II. 3 hr. PR: Geol. 151, Geol. 184 or E.M. 106.
170. Natural Resources and Geology of West Virginia. II. 3 hr. PR: Geol. 1 or 107.
172. Economic Geology: Nonmetallics. II. 3 hr. PR: Geol. 184.
184. Mineralogy. I. 4 hr. PR: One year of geology and chemistry.

185. Mineralogy and Petrography. II. 4 hr. PR: Geol. 184.

201. Physical Geology for Teachers. S. 3 hr. PR: Geol. 1 or equivalent, high school teaching certificate, and consent.

202. Physical Geology Laboratory for Teachers. S. 1 hr. PR: Geol. 1 or equivalent, high school teaching certificate, and consent.

221. Geomorphology. I. 3 hr. PR: Geol. 151.

222. Geomorphology. II. 3 hr. PR: Geol. 151.

231. Invertebrate Paleontology. I, II. 4 hr. PR: Geol. 3, 4.

235. Introductory Paleobotany. I. 4 hr. PR: Geol. 3 and/or Bot. 2.

236. Advanced Paleobotany. II. 4 hr.

239. Seminar in Paleobotany. I, II. 1-2 hr. per semester, 6 hr. maximum. PR: Geol. 235.

240. Principles of Stratigraphy. II. 4 hr. PR: Geol. 231.

246. Sedimentation. I. 3 hr. PR: Geol. 185.

247. Sedimentation Laboratory. I. 1 hr. PR: Geol. 185.

263. Hydrology. I. 3 hr. PR: Geol. 151.

266. Field Geology. SI. 6 hr. PR: Geol. 161, 185, 231.

269. X-Ray Diffraction. I, II. 2 hr.

270. Geology and Mineral Resources. S. 3 hr. PR: Students in Education having Geol. 1. or its equivalent, and consent.

271. Economic Geology: Ore Deposits. I. 3 hr. PR: Geol. 172, 185.

272. Petroleum Geology. II. 3 hr. PR: Geol. 151.

273. Petroleum Geology Laboratory. I, II. 1 hr. per semester. PR: Geol. 151.

274. Seminar in Economic Geology. I, II. 1-2 hr. per semester.

275. Coal Geology. I. 4 hr. PR: Geol. 4.

276. Advanced Coal Geology. II. 4 hr.

285. Optical Mineralogy. I. 4 hr. PR: Geol. 185 and one year of physics.

286. Petrology. II. 4 hr. PR: Geol. 285.

290. Geologic Problems. I or II. 2-3 hr.

291. Seminar. I. 1 hr.

292. Seminar. II. 1 hr.

329. Problems in Geomorphology. I, II. PR: Geol. 222.

332. Micropaleontology. II. 4 hr. PR: Geol. 231.

334. Problems in Paleobotany. I, II. 1-6 hr. PR: Geol. 235.

348. Problems in Sedimentation. I, II. 1-4 hr. PR: Geol. 246.

349. Problems in Stratigraphy. I, II. 1-4 hr. PR: Geol. 240.

359. Problems in Structural Geology. I, II. 1-4 hr. PR: Geol. 151.

366. Problems in Field Geology. I, II. 1-6 hr. PR: Geol. 161.

374. Problems in Advanced Economic Geology. I, II. 1-4 hr. PR: Geol. 271.

376. Problems in Coal Geology. I, II. 1-4 hr. PR: Geol. 276.

387. Advanced Petrology. I. 3 hr. PR: Geol. 286.

388. Problems in Mineralogy and Petrology. I, II. 1-4 hr. PR: Geol. 286.

397, 398. Research. I, II. 1-5 hr. per semester, 6 hr. maximum.

399. Research. I, II. 1-6 hr. per semester, 12 hr. maximum.

Geography

Upper Division

107. Introductory Geography. I. 3 hr.

109. Economic Geography. I, II. 3 hr.

116. Geography of North America. II. 3 hr.

118. Geography of Europe. I. 3 hr.

215. Industrial Geography. I. 3 hr. PR: 12 hr. of economics, history, and geology.

216. Urban Geography. II. 2-3 hr. PR: 12 hr. of economics, history, and geology.

219. Seminar in Geography. I, II. 1-3 hr. per semester. PR: 12 hr. of economics, history, and geology.

Graduate Division

319. Problems in Geography. I, II. 1-4 hr. PR: 12 hr. of social studies and geology.

GERMAN

Lower Division

1. Elementary German. I, II. 3 hr.

2. Elementary German. I, II. 3 hr.

3. Intermediate German. I. 3 hr.

4. Intermediate German. II. 3 hr.

(NOTE: German 1, 2, 3, and 4 are each prerequisite to the next following, and the four combined are prerequisite to all other courses except German 111, 112, 121, and 122, for which German 1 and 2 are prerequisite.)

Upper Division

105. The German Novelle. I. 3 hr.

106. The German Novelle. II. 3 hr.

107. Nineteenth Century Drama. I. 3 hr.

108. Nineteenth Century Drama. II. 3 hr.

111. Spoken German. I. 3 hr.

112. Spoken German. II. 3 hr.

121. Scientific German. I. 3 hr.

122. Scientific German. II. 3 hr.

136. Introduction to Goethe. II. 3 hr.

161. Lyric Poetry. I. 3 hr.

163. Modern German Prose in English Translation. I. 3 hr.

201. Independent Reading. I. 3 hr.

202. Independent Reading. II. 3 hr.

211. Middle High German. I. 3 hr. PR: 12 hr. of upper division German.

212. Middle German. II. 3 hr.

231. Advanced Grammar and Composition. I. 3 hr. PR: German 111 and 112, or consent.

232. Advanced Composition and Conversation. II. 3 hr. PR: German 231 or consent.

242. Faust. II. 3 hr.

244. German Literature Before Goethe. II. 3 hr.

245. Survey of German Literature, 1766-1870. I. 3 hr.

246. Survey of German Literature, 1870-1940. II. 3 hr.

251. History of the German Language. I. 3 hr. PR: 18 hr. of German or consent.

252. German Philology. II. 3 hr. PR: German 251 or consent.

265. German Civilization. I. 3 hr. PR: 12 hr. German or consent.

272. The Romantic Movement. II. 3 hr.

275. The Modern Novel. II. 3 hr. PR: 18 hr. of German.

276. The Modern Novel. II. 3 hr.

281. Old Norse. I. 3 hr. PR: Consent.

282. Old Norse. II. 3 hr.

HISTORY

Lower Division

1. World Civilization from the Earliest Times to the Reformation. I, II. 3 hr.

2. World Civilization from the Reformation to the Present. I, II. 3 hr.

52. Growth of American Nation to 1865. I, II. 3 hr.

53. Making of Modern America, 1865 to Present. I, II. 3 hr.

Upper Division

101. History of Ancient Times: Stone Age to the Fall of Rome. I. 3 hr. PR: One college course in European history or consent.

102. Medieval Europe: Fall of Rome to Renaissance. I. 3 hr. PR: One college course in European history or consent.

103. Modern Europe, 1500-1815. I. 3 hr.

104. Modern Europe, 1815 to Present. II. 3 hr.

117. History of France from Richelieu to the Fourth Republic. I or II. 3 hr. PR: One college course in European history or consent.

118. History of Germany Since the Thirty Years' War. I or II. 3 hr. PR: Same as Hist. 117.

119. History of Russia from Varangians to Bolshevicks. I. 3 hr. PR: Same as Hist. 117.

120. Latin-American History: Colonial Period and Wars of Independence. I. 3 hr. PR: One year of history or consent.

121. Latin America Since 1824. II. 3 hr.

133. British Civilization to 1689. I. 3 hr.

134. British Civilization Since 1689. II. 3 hr.

149. United States and Pennsylvania. I or II. 3 hr.

150. West Virginia. I, II. 3 hr.

151. American Colonial History. I or II. 3 hr.

152. The American Revolution and the Confederation, 1763-1789. I or II. 3 hr.

158. The United States from Abraham Lincoln to Theodore Roosevelt. I or II. 3 hr. PR: Hist. 53 or consent.

164. History of Asia. I. 3 hr.

169. United States Since 1918. I or II. 3 hr.

Study facilities of the College of Arts and Sciences include departmental libraries with extensive holdings in their respective fields. The University Library's West Virginia Collection, with its old court records, deeds, charters, and documents, is a valuable data source for students of State history.

179. American Economic History to 1865. I. 3 hr.

180. American Economic History Since 1865. II. 3 hr.

181. The American Labor Movement. II. 3 hr.

182. History of American Agriculture. I or II. 3 hr.

190. The Cultural History of the American People to 1876. I or II. 3 hr.

191. The Cultural History of the American People Since 1876. I or II. 3 hr.

201. Modern Problems in the Ancient and Medieval Worlds. I or II. 3 hr. PR: Junior standing.

202. Problems in European History Since 1500. I, II. 3 hr. PR: Hist. 1 and 2 or equivalent, or consent.

205. Medieval Cultural History. I or II. 3 hr. PR: Senior or graduate standing with one year of European history, or consent.

206. The Renaissance and the Reformation. II. 3 hr. PR: Same as Hist. 205.

207. Cultural Europe, 1600-1800. I or II. 3 hr. PR: Same as Hist. 205.

208. Cultural Europe, 19th Century. I or II. 3 hr.

209. French Revolution. I. 3 hr. PR: Same as Hist. 205.

210. Napoleonic Era. II. PR: Same as Hist. 205.

220. History of Contemporary Russia. I or II. 3 hr. PR: Same as Hist. 205.

231 The British Empire. I. 3 hr. PR: Hist. 134 or consent.

233. Social and Economic History of England from the 14th to the 18th Century. I, II. 3 hr. PR: Junior standing.

234. Social and Economic History of Modern England. I and II. 3 hr. PR: Hist. 134, or consent.

241. Europe from Sedan to Versailles. I. 3 hr. PR: Hist. 1 and 2 or equivalent.

242. Europe from Versailles to Nuremberg. II. 3 hr.

249. The Westward Movement to 1820. I. 3 hr. PR: Hist. 52 and 53 or equivalent.

250. Economic and Social Development of West Virginia. I or II. 3 hr. PR: Consent.

254. Trans-Mississippi West. II. 3 hr.

255. The Jacksonian Era. II. 3 hr. PR: Hist. 52.

256. The Old South. I, II. 3 hr. PR: Senior or graduate standing, or consent.

257. The American Civil War. I, II. 3 hr. PR: Same as Hist. 256.

258. The Cleveland Era. I or II. 3 hr. PR: Same as Hist. 256.

259. The United States from McKinley to the New Deal, 1898-1933. I. 3 hr. PR: Same as Hist. 256.

260. American Diplomacy to 1898. I. 3 hr. PR: Hist. 52 and 53 or equivalent.

261. American Foreign Policy and Diplomacy, 1898-1947. II. 3 hr.

262. Problems of the Pacific. II. 3 hr. PR: Hist. 164.

265. American Constitutional Development to 1860. I. 3 hr. PR: Hist. 52 and 53 or equivalent.

266. American Constitutional Development Since 1860. II. 3 hr.

269. Recent American History. I or II. 3 hr.

270. Partition of Asia. I or II. 3 hr. PR: Hist. 164.

271. Problems in Contemporary Europe. I or II. 3 hr.

276. Introduction to Historical Research and Bibliography. I, II. 3 hr.

277. The Literature of American History. I or II. 3 hr.

290. Growth of American Thought Before 1865. I. 3 hr. PR: Same as Hist. 256.

291. Growth of American Thought Since 1865. II. 3 hr. PR: Same as Hist. 256.

Graduate Division

301, 302. Thesis. I, II. 2 or 3 hr. per semester.

303, 304. Research. I, II. 6 hr. per semester.

305. Directed Topical Reading. I or II. 3 hr.

306. Directed Topical Reading. I, II. 3 hr. PR: Graduate standing.

333. Seminar in British History: Tudor Period. I or II. 3 hr. PR: Graduate standing.

349, 350. Problems in Local and Regional History. I, II. 3 hr. per semester.

356. Seminar in American History, 1492-1789. I, II. 3 hr.

357. Seminar in American History, 1763-1865. I, II. 3 hr.

358. Seminar in American History, 1850-1898. I, II. 3 hr.

359. Seminar in American History, 1890-Present. I, II. 3 hr.

360. Rise of Nationalism in Asia. I or II. 3 hr.

361. Contributions of Asia to Western Civilization. I or II. 3 hr.

384, 385. Problems in British Imperialism and World Politics. I, II. 3 hr. per semester.

386. Imperial Germany, 1871-1918. I or II. 3 hr.

389. Problems in Revolutionary Europe, 1763-1815. I or II. 3 hr.

Courses in foods train students for such positions as food service manager, research worker in foods, school lunch supervisor, and preparation of educational material for food companies, and many other positions. Students learn to cook the scientific way and they learn how to serve fine meals.

HOME ECONOMICS

1. Elementary Nutrition. I, II. 2 hr.
2. Elementary Clothing. I, II. 2 hr.
3. Art Applied to Personal Problems. I, II. 2 hr.
4. Elementary Management. I, II. 2 hr.
12. Intermediate Clothing. I, II. 3 hr. PR: Home Ec. 2 or exemption from Home Ec. 2 by placement test.
15. Food Selection and Preparation. I, II. 4 hr. PR: Home Ec. 1, Chem. 2 or Phys. Sci. 2 or consent.
17. Textiles. I, II. 3 hr.
21. Nutrition and Foods for Nurses. I. 3 hr.
23. Present-Day Housing. I, II. 2 hr. PR: Home Ec. 3 or consent.
101. Nutrition. II. 3 hr. PR: Home Ec. 15, Chem. 2, or Phys. Sci. 2 with consent.
102. Clothing Selection. I. 2 hr. PR: Home Ec. 3 or consent.
104. Nutrition and Home Management. II. 3 hr.
105. Planning and Serving Family Meals. I or II. 2 hr.
106. Child Development. I, II. 3 hr. PR: Psych. 1 or 3 or Ed. 105 or 106.
113. House Decoration. II. 3 hr.
114. Management of Family Living. I, II. 2 hr.
115. Meal Planning, Preparation, and Service. I, II. 3 hr. PR: Home Ec. 15 or consent.

116. Home Nursing. II. 2 hr.

117. Textile Buying. II. 2 hr. PR: Home Ec. 17.

121. Nutrition Work with Children. II. 3 hr. PR: Home Ec. 115; PR or concurrent, Home Ec. 106.

123. Home Planning and Furnishing. I, II. 4 hr. PR: Home Ec. 23.

124. Demonstration Techniques. I, II. 2 hr. PR: Minimum of 4 hours in each of four areas of home economics or consent.

125. Foods for Special Occasions. II. 2 hr. PR: Home Ec. 15 or consent, (Alt. years).

126. Infant Development. I and II. 2 hr.

132. Clothing Techniques. II. 2 hr.

133. Home Crafts. II. 2 hr.

134. Principles of Home Management. I, II. 2 hr.

181. Problems in Nutrition. I, II. 1-4 hr. PR: Consent.

182. Problems in Clothing Construction. I, II. 1-4 hr. PR: Consent.

183. Problems in Related Art. I, II. 1-4 hr. PR: Consent.

184. Problems in Home Management. I, II. 1-4 hr. PR: Consent.

185. Problems in Foods. I, II. 1-4 hr. PR: Consent.

186. Problems in Child Development. I, II. 1-4 hr. PR: Consent.

187. Problems in Textiles. I, II. 1-4 hr. PR: Consent.

201. Diet Therapy. I, S. 2 hr. PR: Home Ec. 101, Zool. 171, Biochem. 139.

205. Experimental Cookery. II. 3 hr. PR: Home Ec. 15, Chem. 131, (Alt. years).

206. Observation and Participation in Nursery School. II. 1-2 hr. PR: Home Ec. 106.

209. Evaluation in Home Economics. I. 3 hr. PR: 30 hr. of home economics, 7 hr. of Education.

211. Readings in Nutrition. II. 2 hr. PR: Home Ec. 101.

212. Advanced Clothing Construction. II. 2 hr. PR: Home Ec. 233 or consent.

214. Family Economics. I. 2 hr. PR: 30 hr. of home economics.

215. Food Preservation. I. 2 hr. PR: Home Ec. 15, (Alt. years).

217. Readings in Textiles. I. 2 hr. PR: Home Ec. 17.

221. Community Nutrition Problems. I. 2 hr. PR: Consent.

222. Tailoring. II. 3 hr. PR: Home Ec. 2, 17.

233. Costume Design. I. 2 hr. PR: Home Ec. 3, 12, 117.

234. Home Management Laboratory. I, II. 3 hr. PR: Home Ec. 15, 106, 114; 115 recommended.

254. Household Equipment. II. 2 hr. PR: Senior standing.

264. Family Development. II. 2 hr. PR: Home Ec. 114 or consent.

266. Needs of Adolescents. I. 3 hr.

281. Problems in Nutrition. I, II. 1-4 hr. PR: Consent.

282. Problems in Clothing. I, II. 1-4 hr. PR: Consent.

283. Problems in Related Art. I, II. 1-4 hr. PR: Consent.

284. Problems in Home Management. I, II. 1-4 hr. PR: Consent.

285. Problems in Foods. I, II. 1-4 hr. PR: Consent.

286. Problems in Child Development. I, II. 1-4 hr. PR: Consent.

287. Problems in Textiles. I, II. 1-4 hr. PR: Consent.

LIBRARY SCIENCE

Lower Division

1. Using Books and Libraries. I, II. 2 hr.

Upper Division

101. Reference and Bibliography. I. 3 hr.

203. Library Materials for Children. I, II, S. 3 hr.

205. Selection of Books and Related Materials for Young People. II, S. 3 hr.

207. School Library Organization and Administration. I, S. 3 hr.

221. Public and Regional Library Service. S. 3 hr. PR: Consent.

222. Field Practice. I, II, S. 3 hr.

223. Cataloging and Classification. I, S. 3 hr.

225. Books and Reading for Adults. II, S. 3 hr.

226. Literature of the Social Sciences. II. S. 3 hr. PR: Consent.

228. Literature of Science and Technology. I or II, S. 3 hr. PR: Consent.

230. Library Resources for the School Curriculum. II. 3 hr.

235. Library in the Elementary School. II. 2 hr. PR: Lib. Sci. 203.

Graduate Division

302. Administration of College and University Libraries. I or S. 3 hr.

304. Advanced Cataloging and Classification. II, S. 3 hr. PR: Lib. Sci. 223.

306. History of Books and Libraries. II, S. 3 hr.

308. Administration and Supervision of Public School Library Systems. I or II, S. 3 hr. PR: Lib. Sci. 207.

309. Seminar. I or II, S. 2 hr.

310. Special Topics. II. 1-3 hr. PR: Lib. Sci. 309.

MATHEMATICS

Pre-College

0. Elementary Algebra. I and II. ½ unit per semester.

1. Geometry. I and II. ½ unit per semester.

Lower Division

2. Algebra. I, II. 3 hr. PR: 1 unit of algebra.

3. College Algebra. I, II. 3 hr. PR: 1½ units of algebra, or Math. 2, and 1 unit of plane geometry.

4. Plane Trigonometry. I, II. 3 hr. PR: 1½ units of algebra, or Math. 2, and 1 unit of plane geometry.

5. Analytic Geometry. I, II. 4 hr. PR: Math. 3, 4.

6. Arithmetic for Teachers. I, II. 3 hr.

7. Solid Geometry. I, II. 3 hr. PR: Plane geometry.

8. Elementary Mathematics. I, II. 3 hr. PR: 1 unit of algebra.

21, 22. Introduction to Mathematics. I, II. 3 hr. per semester. PR: 1 unit of algebra.

Upper Division

106. Descriptive Astronomy. II. 3 hr.

107. Differential and Integral Calculus. I, II. 4 hr. PR: Math. 5.

108. Differential and Integral Calculus. I, II. 4 hr.

110. Continental Classroom, Probability and Statistics. II. 3 hr. PR: Three years high school mathematics including a second course in algebra.

216. Astronomy for Teachers. S. 3 hr. PR: Math. 5.

220. Numerical Analysis. II. 3 hr. PR: Math. 108.

232. Mathematical Statistics. II. 3 hr. PR: Math. 108.

235. Foundations of Algebra and Analysis. II. 3 hr. PR: Math. 108 or consent.

238. Modern Geometry for Teachers. S. 3 hr. PR: Math. 108 or consent.

240. Differential Equations. I, II. 3 hr. PR: Math. 108.

241. Theory of Determinants and Analytic Geometry of Space. S. 3 hr. PR: Math. 108.

242. Advanced Real Calculus. I. 3 hr. PR: Math. 108.

243. Projective Geometry. II. 3 hr. PR: Math. 246.

244. Theory of Equations. S. 3 hr. PR: Math. 108.

245. Vector Analysis. I. 3 hr. PR: Math. 240 or 253.

246. Introduction to Algebraic Theories. II. 3 hr. PR: Math. 108 or consent.

247. Theory of Numbers. S. 3 hr. PR: Math. 108.

248. History of Mathematics. S. 3 hr. PR: Math. 5.

251. Advanced Calculus. I. 3 hr. PR: Math. 108.

252. Advanced Calculus. II. 3 hr. PR: Math. 251.

253. Advanced Course in Applied Mathematics. I. 3 hr. PR: Math. 108.

254. Advanced Course in Applied Mathematics. II. 3 hr. PR: Math. 253.

255. Mathematical Astronomy. II. 3 hr. PR: Math. 106, 240.

256. Introduction to Complex Variables. II. 3 hr. PR: Math 242 or 252.

259. Introduction to the Laplace Transform. II. 3 hr. PR: Math. 240 or 253.

261. Special Topics. S. 2-3 hr. PR: Math. 108 or consent.

262. Special Topics. II. 2-3 hr. PR: Math. 108 or consent.

263. Special Topics. II. 2-3 hr. PR: Math. 262 or consent.

Graduate Division

308. Theory of Probability. I. 3 hr. PR: Math. 108.

309. Group Theory. II. 3 hr. PR: Math. 246 or consent.

311. Point-Set Topology. I. 3 hr. PR: Math. 252.

312. Introduction to Combination Topology. II. 3 hr. PR: Math. 252.

313. Advanced Differential Equations. II. 3 hr. PR: Math. 240, 252.

314. Tensor Analysis. II. 3 hr. PR: Math. 245, 252.

315. Calculus of Variations. II. 3 hr. PR: Math. 240, 252.

331, 332. Theory of Partial Differential Equations. I, II. 6 hr. PR: Math. 240 and 252, or their equivalent.

351, 352. Algebraic Geometry. I, II. 3 hr. per semester. PR: Math. 243, 246.

353. Linear Algebra. II. 3 hr. PR: Math. 246 or consent.

357. Fourier Series and Partial Differential Equations. I. 3 hr. PR: Math. 240 (or 253), 252.

358. Operational Methods in Partial Differential Equations. II. 3 hr. PR: Math. 240 (or 253), 252.

360, 361. Differential Geometry and Theory of Surfaces. I, II. 3 hr. per semester. PR: Math. 240, 243.

362, 363. Introduction to Modern Algebra. I, II. 3 hr. per semester. PR: Math. 246 or consent.

364, 365. Theory of Functions of Compelx Variables. I, II. 3 hr. per semester. PR: Math. 240, 252.

366, 367. Higher Plane Curves. I, II. 3 hr. per semester. PR: Math. 241, 243.

372, 373. Line Complexes and Cremona Transformation. I, II. 3 hr. per semester. PR: Math. 243.

374, 375. Algebraic Surfaces. I, II. 3 hr. per semester. PR: Math. 243.

376, 377. Theory of Functions of a Real Variable. I, II. 3 hr. per semester. PR: Math. 235, 246, and 252.

380. Thesis. I, II. 3 hr.

NURSING EDUCATION*

101. Introduction to Nursing Education. I, II. 3 hr. PR: Psychology.

102. Principles and Methods of Teaching Nursing. II. 3 hr. PR: Nurs. Ed. 104 and consent.

103. Trends in Nursing. I, II. 3 hr. PR: Consent.

104. Ward Administration and Teaching. I, II, S. 3 hr. PR: Consent.

106. Historical Foundations in Nursing. II. 3 hr.

107. Guidance in Nursing. I, II. 3 hr.

108. The Nurse and Community Relationships. I, II. 3 hr.

110. Evaluation in Nursing Education. II. 3 hr. PR: Nurs. Ed. 101 or 102, psychology, and consent.

111. Personnel Policies and Practices. I. 3 hr. PR: Consent.

112. Nursing Procedures and Routines II. 3 hr. PR: Consent.

113. Legislation and Jurisprudence Affecting Nursing. I, II. 3 hr.

114. New Developments in Nursing Care. I, II, S. 1-3 hr. PR: Consent.

115. Problems in Nursing. S. 1-3 hr. PR: Consent.

117. Interpersonal Relations Applied to Nursing. I, II, S. 3 hr. PR: Consent.

200. In-Service Education in Nursing. I, II, S. 3 hr. PR: Consent.

216. Special Topics. I, II. 1-3 hr. PR: 10 hr. in Nurs. Ed., consent.

*This program in the College of Arts and Sciences will no longer be available to students after June 1, 1961. A program leading to a B.S. Degree in Nursing is being established in the University School of Nursing. Information regarding this program may be obtained by writing to: Dean, School of Nursing, Medical Center, West Virginia University, Morgantown, W. Va. A student enrolling in the College of Arts and Sciences prior to June 1, 1961 must complete all requirements for her degree by June, 1968.

PHILOSOPHY AND PSYCHOLOGY

Philosophy

Lower Division

4. Introduction to Philosophy. I, II. 3 hr.

Upper Division

104. Principles of Philosophy. I, II. 3 hr. (Not open to students having credit for Phil. 4).

106. Logic. I. 3 hr. PR: Phil. 4 or 104.

107. Personal Ethics. I. 3 hr. PR: Phil. 4 or 104.

108. Social Ethics. II. 3 hr. PR: Phil. 4 or 104.

112. History of Ancient and Medieval Philosophy. I. 3 hr. PR: Phil. 4 or 104.

113. History of Modern Philosophy. II. 3 hr. PR: Phil. 4 or 104.

114. Contemporary Philosophy. I. 3 hr. PR: Phil. 4 or 104.

115. Contemporary Philosophy. II. 3 hr. PR: Phil. 4 or 104.

118. Philosophy of Art. I. 3 hr. PR: Phil. 4 or 104.

205. Oriental Religions and Philosophies. I. 3 hr. PR: Two courses in philosophy or consent.

208. Philosophy of Religion. I or II. 3 hr. PR: Two courses in philosophy.

210. Philosophy of Science. II. 3 hr. PR: Phil. 4 or 104.

217. Metaphysics. I or II. 3 hr. PR: Phil. 4 or 104, 112 or 113.

221. Axiology. II. 3 hr. PR: Phil. 4 or 104, and 107 or consent.

Psychology

Lower Division

1. Introduction to Psychology. I, II. 3 hr.

3, 4. General Psychology. I, II. 4 hr.

20. Psychology of Personal Efficiency. I, II. 1 hr.

Upper Division

103, 104. Experimental Psychology. I, II. 3 hr. per semester. PR: Psych. 3 and 4 or consent.

110. Applied Psychology. II. 3 hr. PR: Psych. 1, or 3 and 4.

115. Psychology in Industry. II. 3 hr. PR: Phych. 1, or 3 and 4.

116. Social Psychology. I. 3 hr. PR: Psych. 1, or 3 and 4.

122. Development Psychology. I. 3 hr. PR: Psych. 1, or 3 and 4.

125. Mental Hygiene. I or II. 3 hr.

130. Statistical Methods in Psychology. I. 3 hr. PR: Psych. 1, 3 and 4.

201. Physiological Psychology. I or II. 3 hr. PR: Psych. 103, 104 and Zool. 171 or equivalent.

205. Individual Differences. II. 2 hr. PR: One course in psychology.

206. Learning and Motivation. I or II. 3 hr. PR: Psych. 103, 104 or equivalent.

214. Job Analysis. I or II. 3 hr. PR: Psych. 114 or 115 or M.E. 140.

216. Attitudes and Propaganda. II. 3 hr. PR: Psych. 1, or 3 and 4, or consent.

218. Psychology of Personality. I or II. 3 hr. PR: Two courses in Psychology or consent.

225. Group Psychometric Testing. I. 3 hr. PR: Psych. 1, or 3 and 4, and 130.

226. Advanced Experimental Psychology. II. 3 hr. PR: Psych. 103, 104, 130.

229. Abnormal Psychology. II. 3 hr. PR: Psych. 1, or 3 and 4.

233. Problem Children. II. 3 hr. PR: Child or educational psychology.

236. Psychology of Adjustment. I. 3 hr. PR: Psych. 1, or 3 and 4, or consent.

238. Introduction to Clinical Psychology. I or II. 3 hr. PR: Psych. 218, 236 or consent.

240. History of Psychology. II. 3 hr. PR: Psych. 1, or 3 and 4.

242. Advanced Social Psychology. I or II. 3 hr. PR: Psych. 116 or graduate status.

244. Personnel Psychology. I, II. 3 hr. PR: Psych. 1, or 3 and 4, and Statistics.

245, 246. Seminar. I, II. 1 or 2 hr.

260. Statistical Methods in Psychology. II. 3 hr. PR: Psych. 130 or equivalent.

270. Group Dynamics. (Same as Soc. 270). I or II. 3 hr. PR: Introductory course in psychology or sociology, or consent.

Graduate Division

301, 302. Special Problems in Research. I, II. 1-3 hr. per semester.

303, 304. Thesis. I, II. 2-3 hr. per semester.

305, 306. Directed Study. I, II. 2-4 hr.

310. Projective Techniques. I or II. 3 hr. PR: Psych. 324, 326 and consent.

311. Practicum in Projective Techniques. I or II. 3 hr. PR: Psych. 310 or equivalent.

314. Practicum in Industrial Interviewing. I. 3 hr. PR: Psych. 114 or 115.

316. Counseling and Psychotherapy. I or II. 3 hr. PR: Psych. 324 and 229 or equivalent.

317. Practicum in Counseling and Psychotherapy. I or II. 3 hr. PR: Psych. 316 or equivalent.

324. Individual Intelligence Testing. II. 4 hr. PR: Psych. 122 and 125, or Ed. 114 and 375, and consent.

330. System of Psychology. II. 3 hr. PR: Psych. 1, or 3 and 4, and one course in philosophy.

331. Theory Construction. II. 3 hr.

338, 339. Clinical Psychology. I, II. 4 hr. PR: Psych. 324 and consent.

345, 346, 347, 348. Seminar. I, II. 1 or 2 hr.

350, 351. Practicum in Student-Personnel Psychology. I, II. 1-3 hr. PR: Psych. 236 or consent.

352. Practicum in Vocational Appraisal. I, II. 1-3 hr. PR: Consent.

360. Analysis of Variance. I. 2 hr. PR: Psych. 130 and 260, or consent.

361. Correlational Analysis. II. 2 hr. PR: Psych. 130.

PHYSICS

Lower Division

1. Introductory Physics. I. 4 hr. PR: Plane geometry and algebra.

2. Introductory Physics. II. 4 hr. PR: Physics 1.

Upper Division

109, 110. A Problem Course in General Physics. I, II. 2 hr. per semester. PR or concurrent: Calculus.

111. General Physics. I, II. 5 hr. PR or concurrent: Calculus.

112. General Physics. I, II. 5 hr. PR: Physics 111.

113, 114. Introductory Electronics. I, II. 3 hr. per semester. PR: 1 year of college physics.

116. Photography. II. 3 hr. PR: 1 year of college physics, 1 year of college chemistry.

117. Descriptive Meterology. II. 3 hr. PR: 1 year of college physics.

118. Physical Meterology. II. 3 hr. PR: Physics 117 or equivalent.

201, 202. Special Topics. I, II. 1-3 hr. per semester.

213. Introductory Electronics. S. 3 hr. PR: 1 year of college physics.

221. Optics. II. 3 hr. PR: 19 hr. of college physics, calculus.

225, 226. Introduction to Modern Physics. I, II. 3 hr. per semester. PR: 10 hr. of college physics, calculus.

231, 232. Theoretical Mechanics. I, II. 3 hr. per semester. PR: Same as Physics 225.

233, 234. Introductory Electricity and Magnetism. I, II. 3 hr. per semester. PR: Same as Physics 225.

241, 242. Physics Laboratory. I, II. 1 hr.

243, 244. Physics Laboratory. I, II 1 hr.

245. 246. Physics Laboratory. I, II. 1 hr.

247, 248. Physics Seminar. I, II. No credit. Required of Junior, Senior, and Graduate physics majors.

254. Outline of Modern Physics. S. 3 hr. PR: 10 hr. of college physics, 1 yr. or college math.

255, 256. Workshop for Physics Teachers. SI, SII. 2 hr. PR: Same as Physics 254.

257. Photography. SI. 3 hr. PR: 1 year of physics or equivalent.

258. Light. SII. 3 hr. PR: 1 year of physics or equivalent.

261, 262. Molecular Physics. I, II. 3 hr. per semester. PR: Physics 225, 226.

271, 272. Solid State Physics. I, II. 3 hr. PR: Physics 225, 226.

283. Thermodynamics. I. 3 hr. PR: Same as Physics 225.

284. Kinetic Theory. II. 3 hr. PR: Same as Physics 225.

287, 288. Introduction to Mathematical Physics. I, II. 3 hr. per semester. PR: Same as Physics 225.

Graduate Division

321, 322. Physical Optics. I, II. 3 hr. per semester. PR: Physics 221, differential equations.

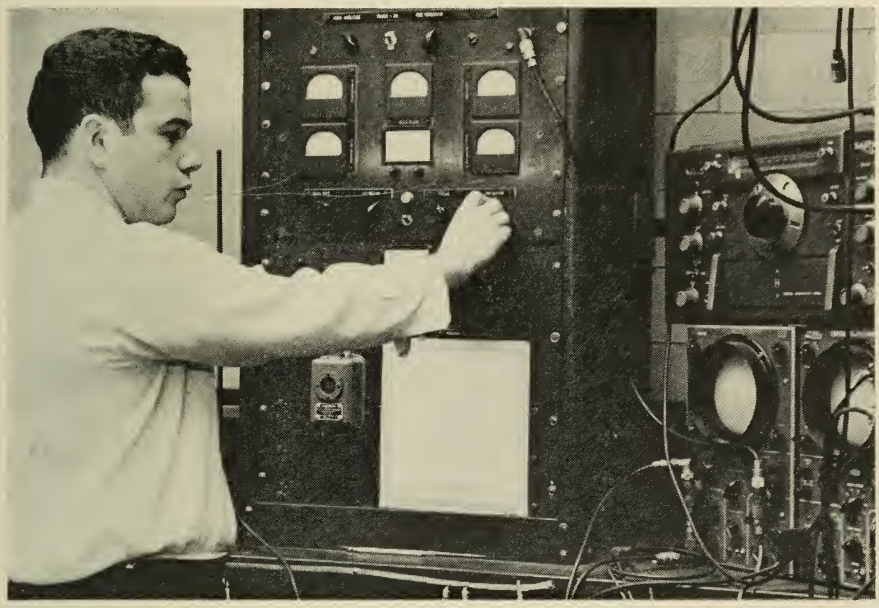
331, 332. Advanced Classical Mechanics. I, II. 3 hr. PR: Physics 231, 232.

333, 334. Advanced Electricity and Magnetism. I, II. 3 hr. per semester. PR: Physics 233, 234, differential equations.

341, 342. Research Seminar. I, II. 3 hr. per semester. PR: Consent.

351, 352. Quantum Mechanics. I, II. 3 hr. per semester. PR: Physics 225, 226.

353. Advanced Quantum Mechanics. I. 3 hr. PR: Physics 351, 352.



Physics students at the University use modern laboratory apparatus to test theories and to solve problems encountered in the classroom. Developments in atomic energy, space exploration, and other science frontiers have opened vast new fields for the physicist. Careers in government, industry, and on university campuses await future physicists.

363, 364. Nuclear Physics. I, II. 3 hr. per semester PR: Physics 225, 226.

383. Statistical Mechanics. II. 3 hr. PR: Physics 283, 352.

397, 398. Research. I, II. 1-6 hr. per semester. PR: Consent.

POLITICAL SCIENCE

Lower Division

1. Elements of Democratic Government. I, II. 3 hr.
2. The American Federal System. I, II. 3 hr.

Upper Division

101. Introduction to Government. I, II. 3 hr. (Exclusively for students in the College of Agriculture, Forestry, and Home Economics, and in the College of Engineering.)

111. Functions of American National Government. I. 3 hr.

113. American Constitutional Principles. II. 3 hr.

120. State and Local Government. I, II. 3 hr.

130. Political Parties and Electoral Processes. I. 3 hr.

140. Introduction to Public Administration. I. 3 hr.

150. Contemporary European Governments. I, II. 3 hr.

160. International Relations. I. 3 hr.

170. History of Political Thought: Plato to Machiavelli. I. 3 hr.

171. History of Political Thought: Machiavelli to Bentham. II. 3 hr. PR: Pol. Sci. 170 or consent.

200. Research Materials and Techniques in Political Science. I. 3 hr.

210. American Political Institutions. I. 3 hr. PR: Pol. Sci. 2 or consent.

211. Problems of American National Government. II. 3 hr.

213. American Constitutional Law Theory. II. 3 hr. PR: Pol. Sci. 2 or consent.

221. West Virginia Government and Administration. I, II. 3 hr.

225. Municipal Government. II. 3 hr.

226. Problems of State and Local Government. I. 3 hr.

231. History of Political Parties. I. 3 hr.

232. Public Opinion and Propaganda. II. 3 hr.

233. Current Political Issues. I. 3 hr.

234. The Legislative Process. II. 3 hr.

241. Administrative Organization and Management. II. 3 hr. PR: Pol. Sci. 140 or consent.

242. Financial Administration. I. 3 hr. PR: Pol. Sci. 140 or consent.

243. Public Personnel Administration. II. 3 hr. PR: Pol. Sci. 140 or consent.

244. Administrative Law and Regulations. II. 3 hr. PR: Pol. Sci. 140 or consent.

245. Public Administration and Policy Development. I. 3 hr. PR: Pol. Sci. 140 or consent.

250. Comparative Government. I. 3 hr.

251. Modern Dictatorships. II. 3 hr.

252. British Government and Politics. II 3 hr.

253. Contemporary Governments of the Commonwealth. II. 3 hr.

254. Governments of Asia. I. 3 hr.

255. Governments of Latin America. II. 3 hr.

256. Governments of the Middle East. I. 3 hr.

261. International Organization. II. 3 hr.

262. Specialized Agencies of the United Nations. II. 3 hr.

263. Public International Law. I. 3 hr.

264. Conduct of American Foreign Relations. I. 3 hr.

265. Basic Factors in Power Politics. II. 3 hr. PR: Pol. Sci. 2 or consent.

272. Recent and Contemporary Political Thought. I. 3 hr. PR: Pol. Sci. 171 or consent.

273. American Political Theory. II. 3 hr. PR: Pol. Sci. 171 or consent.

274. Problems in Contemporary Political Thought. II. 3 hr.

281. Government and Business. 3 hr. PR: Pol. Sci. 2 or consent.

Graduate Division

310, 311. Directed Reading and Research in American National Government. I, II. 2-4 hr. each.

320, 321. Directed Reading and Research in State Government. I, II. 2-4 hr. each. PR: Pol. Sci. 120 or consent.

325, 326. Directed Reading and Research in Local Government. I, II. 2-4 hr. PR: Pol. Sci. 225 or consent.

330, 331. Directed Reading and Research in Politics. I, II. 2-4 hr. PR: Pol. Sci. 130 or consent.

346, 347. Directed Reading and Research in Public Administration. I, II. 2-4 hr. each. PR: Pol. Sci. 140 or consent.

351, 352. Directed Reading and Research in Comparative Government. I, II. 2-4 hr. each.

361, 362. Directed Reading and Research in International Relations. I, II. 2-4 hr. each.

375, 376. Directed Reading and Research in Political Theory. I, II. 2-4 hr. each.

380. Thesis. I, II. 2-6 hr.

ROMANCE LANGUAGES AND LITERATURES

French

Lower Division

1. Elementary French. I, II. 3 hr.
2. Elementary French. I, II. 3 hr.
5. Intermediate French. I, II. 3 hr.
6. Intermediate French. II. 3 hr.

Upper Division

103. Elementary Conversation. I. 3 hr. PR: 12 hr. of French or equivalent.

104. La Langue Pratique. II. 3 hr. PR: 12 of French or equivalent.

109 Grammar and Conversation. I. 3 hr. PR: 12 hr. of French or equivalent.

110. Advanced Conversation. II. 3 hr. PR: Fr. 109 or equivalent.

115. The Classical School. I. 3 hr. PR: 12 hr. of French or equivalent.

116. Literature of the Eighteenth Century. II. 3 hr. PR: 12 hr. of French or equivalent.

118. Literature of the Nineteenth Century. I. 3 hr. PR: 12 hr. of French or equivalent.

151. French for Public Schools. I. 3 hr. PR: French 103, 104 or 109, 110, or equivalent.

152. French for Public Schools. II. 3 hr.

217. French Civilization. I. 3 hr. PR: 12 hr. of French.

221. The Romantic Movement. I. 3 hr. PR: French 115.

222. French Realism. II. 3 hr. PR: French 118.

229. Literature of the Sixteenth Century. I. 3 hr. PR: 18 hr. of French.

231. Phonetics and Pronunciation. II. 3 hr. PR: 18 hr. of French or equivalent.

237. Moliere. II. 3 hr. PR: French 115.

241. Romance Structural Linguistics. S. 4 hr. PR: 12 Sem. hr. in one foreign language.

242. Workshop in Foreign Languages. S. 4 hr. PR: Same as French 241.

244. Explication De Textes. II. 3 hr. PR: 18 hr. of French or equivalent.

290. Old French. II. 3 hr.

Graduate Division

393. SPECIAL TOPICS. I. 3-5 hr.

Spanish

Lower Division

1. ELEMENTARY SPANISH. I, II. 3 hr.
2. ELEMENTARY SPANISH. I, II. 3 hr.
5. INTERMEDIATE SPANISH. I. 3 hr.
6. INTERMEDIATE SPANISH. II. 3 hr.

Upper Division

103. ELEMENTARY CONVERSATION. I. 3 hr. PR: 12 hr. of Spanish or equivalent.

104. LA LENGUA PRACTICA. II. 3 hr. PR: 12 hr. of Spanish or equivalent.

109. GRAMMAR AND CONVERSATION. I. 3 hr. PR: 12 hr. of Spanish or equivalent.

110. ADVANCED CONVERSATION. II. 3 hr. PR: Spanish 109 or equivalent.

151. SPANISH FOR PUBLIC SCHOOLS. I. 3 hr.

152. SPANISH FOR PUBLIC SCHOOLS. II. 3 hr.

211. NINETEENTH CENTURY LITERATURE TO 1870. I. 3 hr. PR: Spanish 5, 6 or equivalent.

212. SPANISH LITERATURE SINCE 1870. II. 3 hr. PR: Spanish 5, 6 or equivalent.

216. CIVILIZATION AND CULTURE. II. 3 hr. PR: 12 hr. of Spanish or equivalent.

217. SPANISH-AMERICAN LITERATURE AND CULTURE. I. 3 hr. PR: Spanish 5, 6 or equivalent.

218. SPANISH-AMERICAN LITERATURE AND CULTURE. II. 3 hr. PR: Spanish 5, 6 or equivalent.

221. LITERATURE OF THE GOLDEN AGE. I. 3 hr. PR: 18 hr. of Spanish or equivalent.

222. THE GOLDEN AGE AFTER LOPE DE VEGA. II. 3 hr. PR: Spanish 221.

223. ESTUDIOS DE ESTILO. I. 3 hr. PR: 18 hr. of Spanish or equivalent.

224. EXPLICACION DE TEXTOS. II. 3 hr. PR: 18 hr. of Spanish or equivalent.

291. CERVANTES. I. 3 hr.

295. SIXTEENTH CENTURY LITERATURE. I. 3 hr.

296. OLD SPANISH. II. 3 hr.

Graduate Division

392. SPECIAL TOPICS. II. 1-3 hr.

Italian

Lower Division

1. ELEMENTARY ITALIAN. I. 3 hr.
2. ELEMENTARY ITALIAN. II. 3 hr.
5. INTERMEDIATE ITALIAN. I. 3 hr.
6. INTERMEDIATE ITALIAN. II. 3 hr.

Upper Division

109. COMPOSITION AND CONVERSATION. I. 3 hr.

110. ADVANCED CONVERSATION. II. 3 hr.

Russian

Lower Division

1. Elementary Russian. I. 3 hr.
2. Elementary Russian. II. 3 hr.
5. Intermediate Russian. I. 3 hr.
6. Intermediate Russian. II. 3 hr.

SOCIAL WORK

General Prerequisites: Twelve semester hours in the social sciences for Social Work courses in the 200 series; 24 semester hours in the social sciences for Social Work courses in the 300 series.

Social Work courses in the 200 series may be offered toward admission requirements for courses in the 300 series.

Upper Division

151. Basic Social Statistics. I. 1 hr.

152. Practicum in Research Techniques. II. 2 hr. PR: One course in statistics or research methods.

212. Community Social Welfare Resources. II. 3 hr. PR: Soc. Work 221 and 260 or 285, or consent.

215. Psychosocial Growth and Behavior. I. 2 hr.

221. The Field of Social Work. II, S. 3 hr.

260. Child Welfare. I. 3 hr.

285. Introduction to Public Welfare. I, S. 3 hr.

Graduate Division

301. Social Casework I. I. 3 hr. PR: Consent.

302. Social Casework II. S. 3 hr. PR: Soc. Work 201, 311, 312, or consent.

303. Introduction to Social Group Work. I. 2 hr. PR: Consent.

304. Community Organization. II. 3 hr. PR: Consent.

306. The Social Services I. I. 3 hr. PR: Consent.

307. The Social Services II. II. 3 hr. PR: Soc. Work 306.

311, 312. Field Work. I, II, S. 5 hr. each. PR: Soc. Work 301.

314. Field Work. I, II, S. 1-4 hr. PR: Soc. Work 301.

315. Normal Development of the Individual. I. 2 hr. PR: Consent.

320. Psychopathology. S. 2 hr. PR: Soc. Work 301, 315, 371.

322. Social Casework III. II. 2 hr. PR: Soc. Work 331, 332.

331, 332. Advanced Field Work. I. 5 hr. PR: Soc. Work 302.

334. Advanced Field Work. I, II, S. 1-4 hr. PR: Soc. Work 302.

351. Social Work Research I. I. 2 hr.

352. Social Work Research II. II, S. 1-2 hr. per term or semester. PR: Soc. Work 351.

361. Social Agency Administration I. I. 2 hr. PR: Consent.

362. Social Agency Administration II. II. 1 hr. PR: Soc. Work 361 or consent.

363. The Executive Function in Administration. II. 1 hr. PR: Soc. Work 361 or consent.

371. Health, Disease, and Disability. I. 2 hr. PR: Consent.

381. Problem Report. I, II, S. 1-3 hr. per semester or term.

385. Social Casework for Rehabilitation Counselors. I. 3 hr. PR: Soc. Work 301, 387, or consent.

390. Seminar. II. 2 hr. PR: 30 hr. in graduate social work education.

391. Seminar in Applied Psychodynamics. II. 1 hr. PR: Soc. Work 302, 315.

392. Seminar in Community Organization. II, S. 1-2 hr. PR: Soc. Work 304 or equivalent.

393. Seminar: Psychiatric Social Work. II. 1-2 hr. PR: Second-year status.

395. Seminar: Medical Social Work. II. 1-2 hr. PR: Second-year status.

SOCIOLOGY

Lower Division

1. Introduction to Sociology. I, II. 3 hr.

Upper Division

102. Principles of Sociology. I, II. 3 hr.

104. Social Problems. I, II. 3 hr.

160. Family Living. I, II. 3 hr.

(Note: Sociol. 1 or 102, or Soc. Sci. 1, 2, or equivalents, are prerequisite for all courses in the 200 series.)

202. Introduction to Social Research. I. 3 hr.

205. Urban Sociology. II. 3 hr.

206. Rural Sociology. I. 3 hr.

208. The Community. S. 3 hr.

210. Marriage and the Family. I, II. 3 hr.

211. Sociology of Childhood. II. 3 hr.

220. Social Change. I. 3 hr.

229. Population and Migrations. I. 3 hr.

231. Race Relations. I. 3 hr.

233. Criminology. I, II. 3 hr.

234. Juvenile Delinquency. S. 3 hr.

235. Collective Behavior. I. 3 hr.

243. Introduction to Anthropology. II. 3 hr.

244. Culture and Personality. II. 3 hr.

246. Types of Sociological Theory. II. 3 hr.

248. Primitive Society. II. 3 hr. PR: Sociology 1 or equivalent.

250. Human Relations in Industry. II. 3 hr.

270. Group Dynamics (Same as Psych. 270). I. 3 hr.

274. Housing. I. 3 hr.

Graduate Division

(Note: Consent is prerequisite in all courses in the 300 series).

371, 372. Thesis. I, II. 1-6 hr.

391. General Seminar. I, II. 3 hr.

392. General Seminar. I, II. 3 hr.

393. Seminar in Sociological Research. I, II. 3 hr.

394. Seminar in Sociological Research. I, II. 3 hr.

395. Seminar in Sociological Theory. I, II. 3 hr.

396. Seminar in Sociological Theory. I, II. 3 hr.

SPEECH

Lower Division

3. Voice and Diction. I, II. 3 hr.

6. Acting. I, II. 3 hr.

11. Public Speaking. I, II. 3 hr. PR: Eng. 1 and 2.

29. Oral Interpretation. I, II. 3 hr.

60. Junior Varsity Debate. I. 1-2 hr.

61. Junior Varsity Debate. II. 1-2 hr.

75. Parliamentary Procedure. I, II. 1 hr.

Interpretation

Upper Division

104. Advanced Oral Interpretation. I. 3 hr. PR: Speech 29.

105. Basic Problems in Interpretation. II. 3 hr. PR: Speech 29.

200. Art of Storytelling. I or II. 2 hr. PR: Consent.

203. Professional Reading. I, II. 3 hr. PR: Speech 104 and consent.

205. Advanced Problems in Interpretation. II. 3 hr. PR: Speech 29 and consent.

Public Speaking

120. Group Discussion. I, II. 3 hr. PR: Speech 11.

121. Argumentation and Debate. I, II. 3 hr. PR: Speech 11.

123. Advanced Argumentation and Debate. I. 3 hr. PR: Speech 121.

124. Advanced Argumentation and Debate. II. 3 hr. PR: Speech 123.

125. Advanced Public Speaking. I. 3 hr. PR: Speech 11.

126. Speech for Business and Industry. 3 hr.

220. Speech Composition. II. 2 hr. PR: Speech 11 and consent.

221. Persuasion. I. 3 hr. PR: Speech 11 and consent.

222. Forms of Public Address. II. 2 hr. PR: Consent.

223. Advanced Group Discusssion. II. 2 hr. PR: Consent.

225. Interscholastic Forensics. S. 2 hr. PR: Consent.

Graduate Division

330. History of Rhetoric. I. 3 hr. PR: Consent.

335. History of American Public Address. II. 3 hr. PR: Consent.

339. Seminar: Problems in Speech. I, II. 3 hr.

Radio and Television

Upper Division

140. Introduction to Broadcasting. I. 3 hr.

141. Radio and Television Announcing. II. 3 hr.

143. Fundamentals of Radio Production. I. 2 hr. PR: Speech 140 or consent.

144. Radio and Television Continuity Writing. I. 2 hr.

145. Fundamentals of Television Production. I. 3 hr. PR: Speech 6 (recommended).

146. Microphone and Recording Techniques. I. 1 hr.

240. Radio and Television Dramatic Writing. II. 2 hr. PR: Speech 140 and 144 or consent.

242. Production Directing. II. 2 hr. PR: Speech 143 or consent.

243. Television Workshop. I, II. 2 hr. PR: Speech 140 and consent.

244. Radio and Television Programming. II. 2 hr. PR: Speech 140 and 145 or consent.

Graduate Division

348. Seminar: Problems in Radio. II. 3 hr. PR: Consent.

349. Seminar: Problems in Television. I, II. 3 hr. PR: Consent.

Speech Correction and Audiology

250. Speech Correction. I. 2 hr. PR: Consent.

251. Speech Correction Laboratory. I. 1 hr. PR: Credit in Speech 250 or current enrollment, or consent.

252. Stuttering. I. 3 hr. PR: Speech 250, 251 and consent.

253. Introduction to Audiology. II. 3 hr. PR: Consent.

254. Applied Phonetics I. 3 hr. PR: Speech 3, 250, or consent.

255. Hard-of-Hearing Therapy. II. 3 hr. PR: Speech 272 and consent.

256. Anatomy of the Speech and Hearing Mechanism. I. 4 hr. PR: Consent.

257. Clinical Practice. I, II. 2-3 hr. PR: Consent.

258. Clinical Practice. II. 2-3 hr. PR: Speech 257 and consent.

259. Advanced Speech Correction. II. 3 hr. PR: Speech 250, 251, 254, 256, and consent.

271. Diagnostic Audiometrics. II. 3 hr. PR: Speech 253 and consent.

272. Bases of Aural Rehabilitation for Children and Adults. II. 3 hr. PR: Speech 253, 271 and consent.

273. Profound Organic Speech Disorders. II. 3 hr. PR: Speech 259 and consent.

275. Speech Problems of Children. II. 3 hr. PR: Consent.

277. Advanced Clinical Practice. I. 2 hr. PR: Speech 258.

278. Advanced Clinical Practice. II. 2 hr. PR: Speech 277.

Graduate Division

350. Experimental Phonetics. I. 3 hr. PR: Speech 254 and consent.

351. Problems in Speech Pathology. II. 3 hr. PR: Consent.

352. Advanced Speech Pathology. II. 3 hr. PR: Speech 250 and consent.

353. Neuropathologies of Speech and Language. I. 3 hr. PR: Speech 250, 256, 273, or consent.

357. Seminar: Problems in Audiology. I. 3 hr. PR: Speech 253, 271, 272.

358. Acoustic Instrumentation. I. 3 hr. PR: Speech 253, 271.

359. Seminar: Speech Pathology. I, II. 2 hr. PR: 9 hr. of speech re-education courses, and consent.

Theater

Upper Division

160. Theatrical Make-up. I. 2 hr.

161. Stagecraft. I, II. 3 hr.

162. Play Directing. I. 3 hr. PR: Speech 165.

164. Theatre Workshop. I, II. 1-3 hr.

165. Theatrical Methods and Practices Laboratory. I, II. 1 hr.

166. Theatrical Methods and Practices Laboratory. I, II. 1 hr.

260. Advanced Acting. II. 2 hr. PR: Speech 6, 165, and consent.

261. Theatrical Dialects. I. 2 hr. PR: Consent.

262. Playwriting. II. 2 hr. PR: Speech 165 and consent.

263. Scene Design. II. 2 hr. PR: Consent.

264. Advanced Play Directing. II. 2 hr. PR: Speech 162, either 161 or 164, and consent.

265. History of Theater. I. 2 hr. PR: Speech 165 and consent.

267. Advanced Scenery and Lighting. I, II. 2 hr. PR: Speech 161 and consent.

268. Creative Dramatics. I. 2 hr. PR: Speech 6 or consent.

Graduate Division

368. Seminar: Problems in Theatre, I, II. 3 hr. PR: Consent.

Related Courses

Upper Division

170, 171, 172. Directed Speech Activities. I, II. 1-3 hr. PR: Consent.

270. Psychology of Speech. II. 3 hr. PR: 6 hr. of psychology and 18 hr. of speech.

Graduate Division

301. Research Problems and Methods. I. 3 hr. PR: Graduate standing.

370. Research. I, II. 1-3 hr. PR: Speech 301, a speech seminar, and consent.

375. Independent Study. I, II. 1-3 hr. PR: Speech 301, a speech seminar, and consent.

399. Thesis. I, II. 2-4 hr.

The Basic Sciences (Medical Center)

The Departments of Biochemistry, Gross and Neurological Anatomy, Microbiology, Microanatomy and Organology, Pathology, Pharmacology, and Physiology are grouped together because they offer courses, both required and elective, to students in each of the various Schools of the Medical Center.

Several of these Departments also have Master's and Ph.D. degree programs. Students interested in working for such an advanced degree or taking graduate courses should contact the Chairman of the Department and consult The Graduate School *Announcements* for further details.

Gross and Neurological Anatomy

101. Principles of Human Anatomy. I. 3 hr. PR: Consent.

201. Gross Anatomy. (For Med. Students). I, II. 12 hr. PR: Gen. Zool. and consent.

203. Neuroanatomy. (For Med. Students). II. 4 hr. PR: Consent.

206. Gross Anatomy. (For Dent. Students). I and II. 8 hr. PR: Gen. Zool. and consent.

208. Neuroanatomy. (For Dent. Students). II. 2 hr. PR: Consent.

301. Advanced Gross Anatomy. I, II, S. 2-6 hr. PR: Gross Anat. 201, 202, and consent.

302. Advanced Developmental Anatomy. I, II, S. 2-6 hr. PR: Gross Anat. 201, 202, and consent.

303. Seminar. I, II, S. 1-6 hr. PR: Consent.

304. Applied Anatomy. I, II. 2-6 hr. PR: Gross Anat. 201, 202, and consent.

350. Research in Gross and Neurological Anatomy. I, II, S. 1-6 hr. PR: Anat. 201, 202, 203, and consent.

Microanatomy and Organology

205. Microanatomy and Organology. (For Med. Students). I. 6 hr. PR: Gen. Zool. or equivalent.

209. Microanatomy and Organology. (For Dent. Students). I. 6 hr. PR: Gen. Zool.

305. Experimental Embryology. II. 3 hr. PR: Embryology, Microanat. 205 or 209, and consent.

351. Advanced Microanatomy and Organology. I, II, S. 2 hr. PR: Microanat. 205 or 209.

352. Research in Microanatomy and Organology. I, II, S. 2-12 hr. PR: Microanat. 351 and consent.

353. Special Problems in Microanatomy. II. 2-4 hr. PR: Microanat. 205 or 209, and consent.

Biochemistry

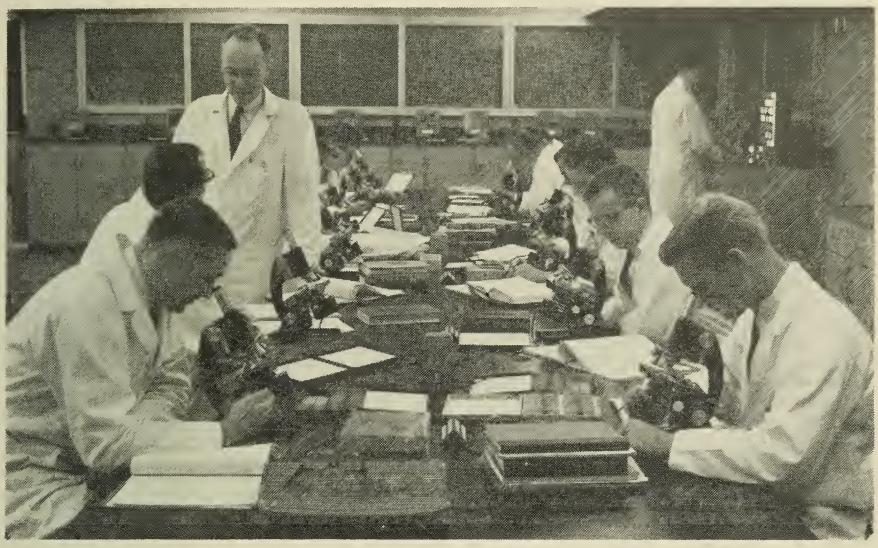
139. General Biochemistry. (For students in Home Econ., Med. Tech., and Pharmacy). I. 4 hr. PR: Inorganic and Organic Chem. Quant. analysis desirable. Open to other qualified students.

223. Biochemistry. (For Dent. students). II. 7 hr. PR: Organic Chem.

231. Biochemistry. (For Med. students). I. 7 hr. PR: Organic Chem.

237. Seminar in Biochemistry. I, II. 1-6 hr. (1 hr. per sem.). PR or Conc: Biochem. 223 or 231.

239. Clinical Chemical Techniques. (Primarily for Med Tech. students). II. 4 hr. PR: Biochem. 139, 223, or 231. Open to other qualified students.



Gross and microscopic anatomy students at the University Medical Center receive thorough training in the various fields of anatomy.

330. Biochemical Preparations. I, II. 2-5 hr. PR: Biochem. 223 or 231, or equivalent.

332. Enzyme Kinetics. II. 3 hr. PR: Biochem. 139, 223, or 231. For graduate students or other properly qualified students.

333. Research in Biochemistry. I, II, S. 1-6 hr. PR: Biochem. 231 or equivalent.

337. Biochemistry of the Amino Acids and Proteins. I. 3 hr. PR: Agr. Biochem. 290 or Med. Biochem. 231. Offered in 1962-63 and every third year.

338. Hormones, Nature and Action. I. 2 hr. PR: Agr. Biochem. 290 or Med. Biochem. 231. Offered in 1961-62 and every third year.

Microbiology

220. Pathogenic Microbiology. (For Pharmacy students). II, S. 5 hr. PR or Conc: Chem. 238 (organic).

221. Microbiology. (For Med. students). I. 7 hr. PR or Conc: Organic Chem. and Biochem. desirable.

222. Parasitology. (For Med. students). II. 2 hr. PR: Consent.

223. Pathogenic Microbiology. (For Med. Tech. students). II. 5 hr. PR or Conc: Organic Chem.

224. Parasitology. (For Med. Tech. students). II. 4 hr. PR: Consent.

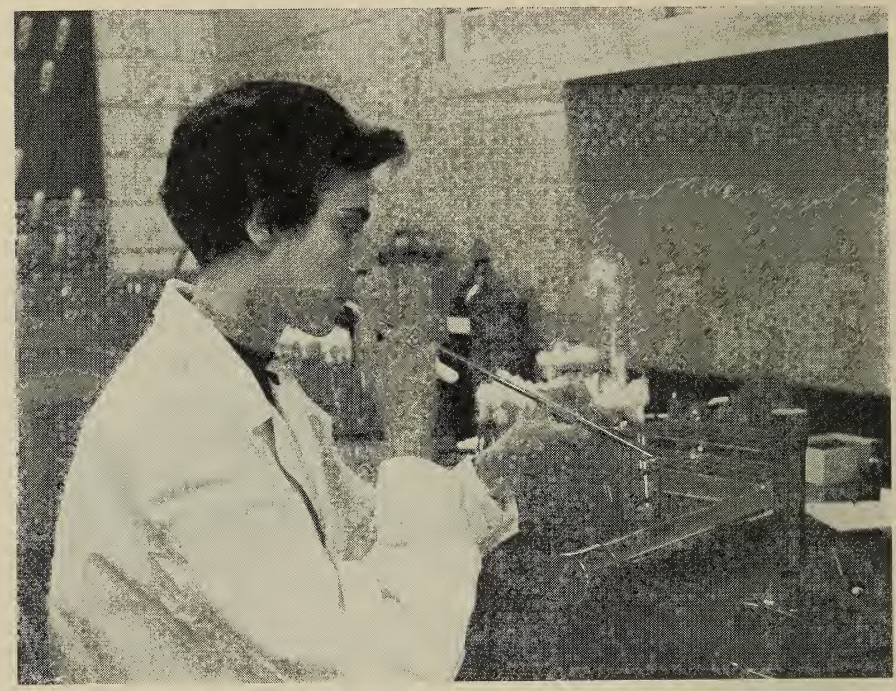
225. Microbiology. (For Dent. students). I. 5 hr. PR: Biochem.

227. Special Problems in Microbiology. I, II, S. 1-6 hr. PR: Microbiol. 221 or equivalent.

228. Diagnostic or Determinative Microbiology. I, II, S. 1-6 hr. PR: Microbiol. 221 or equivalent.

321. Bacterial Physiology. I. 4 hr. PR or Conc: Microbiol. 221 or equivalent and Biochem.

322. Bacterial Metabolism. I. 4 hr. PR: Microbiol. 321.



A microbiology graduate student at work in the microbiology laboratory.

323. Immunology. II. 4 hr. PR: Microbiol. 221 or equivalent.

324. Virology. II. 4 hr. PR: Miocrobiol. 221 or equivalent.

325. Medical Mycology. I. 3 hr. PR: Microbiol. 221 or equivalent. Mycology 203 and 330 are recommended.

326. Seminar. I, II, S. 1-6 hr. PR: Microbiol. 221 or equivalent.

327. Research in Microbiology. I, II, S. 1-6 hr. PR: Microbiol. 221 or equivalent.

Pathology

150. Elementary. Histology. (For Med. Tech. students). I. 3 hr. Other students as approved by the department.

151. Clinical Laboratory Diagnostic Methods. (For Med. Tech. students). II. 4 hr. Other students as approved by the department.

228. Pathology. (For Dent. students). II. 4 hr. PR: Microscopic Anat. 209.

251. General and Tumor Pathology. (For Med. students). I. 8 hr. PR: Consent.

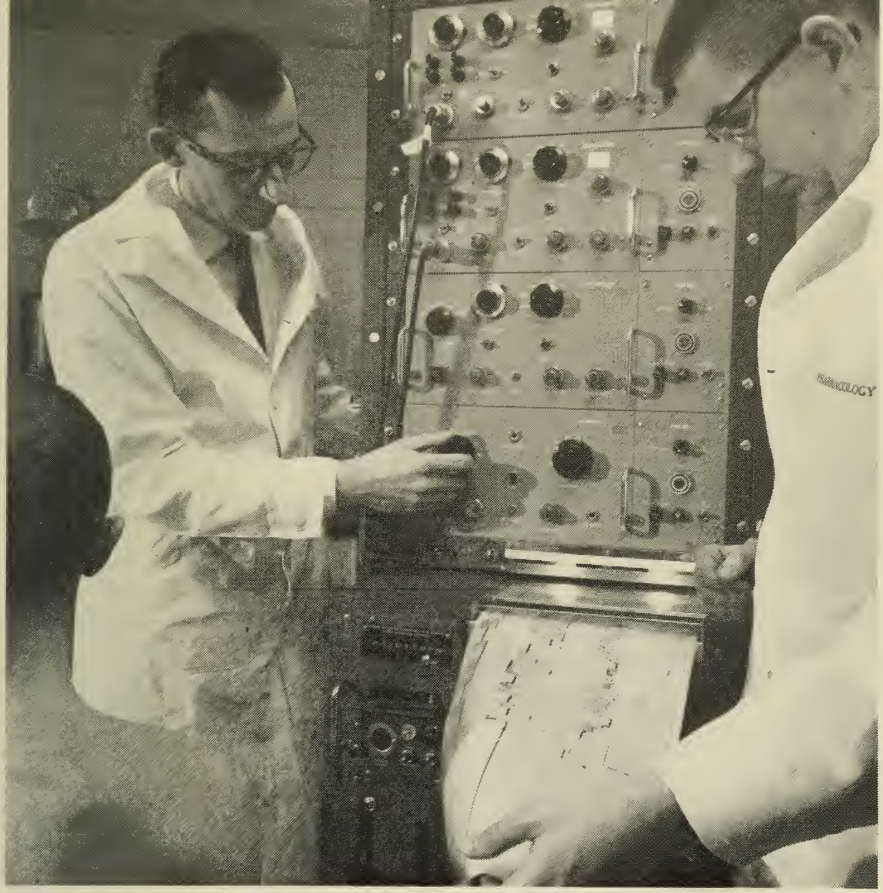
252. Special Pathology. (For Med. students). II. 3 hr. PR: Consent.

253. Oral Pathology. (For Dent. students). I. 3 hr. PR: Gen. Path.

254. Clinical Pathology. (For Med. students). II. 3 hr. PR: Consent.

256. Advanced Pathology. I, II. 3 hr. PR: Consent, Path. 228 and 251—6 hr.

351. Research. I, II. 1-6 hr. PR: Consent.



Medical students record blood pressure and respiration on an electronic device.

Pharmacology

260. Pharmacology. (For Dent. students). I. 5 hr. PR: Physiology.

261. Fundamentals of Pharmacology. (For Pharmacy students). I. 5 hr. PR: Physiology.

262. Pharmacology. (For Med. students). II. 6 hr. PR: Physiology.

265. Seminar in Pharmacology. I, II. 1 hr. per sem. PR or Conc: Pharmacol. 262 or graduate status in basic medical sciences.

360. Special Topics in Pharmacology. I, II, S. 1-6 hr. per sem.

362. Advanced Pharmacology. I, II, S. 1-6 hr. per sem. PR: Pharmacol. 262 or equivalent.

367. Research in Pharmacology. I, II, S. 1-6 hr. per sem. PR: Pharmacol. 262 or equivalent.

Physiology

141. Elementary Physiology. (For students in Pharmacy and Med Tech.). I. 4 hr. PR: Biol. 1, 2 or Zool. 1, 2; PR or Conc: Chem. 131 (organic chem.).

241. Human Physiology. (For Med. students). II. 9 hr. PR: Comparative Anat., Biochem. 231.

243. Human Physiology. (For Dent. students). I. 6 hr. PR: General Zool., Organic Chem.

244. Seminar in Physiology. I, II. 1-6 hr. (1 hr. per sem.). PR: Graduate status.

340. Special Topics. I, II, S. 1-12 hr.

342. Advanced Physiology. I, II, S. 1-6 hr. per sem. PR: Physiol. 241 or 243 or equivalent.

346. Research in Physiology. I, II, S. 1-12 hr.

The College of Commerce

ACCOUNTING

1. Principles of Accounting. I, II. 3 hr. PR: Sophomore standing.

2. Principles of Accounting. I, II. 3 hr. PR: Accounting 1.

111, 112. Intermediate Accounting. I, II. 3 hr. per semester. PR: Accounting 2.

113. Advanced Accounting. I. 3 hr. PR: Accounting 112.

115. Cost Accounting. I. 3 hr. PR: Accounting 2.

213, 214. Income Tax Accounting. I, II. 3 hr. per semester. PR: Accounting 112.

216. Advanced Cost Accounting. II. 3 hr. PR: Accounting 115.

217. Auditing Theory. I. 3 hr. PR: Accounting 112.

218. Auditing Practice. II. 3 hr. PR: Accounting 217.

220. Accounting Systems. I. 3 hr. PR: Accounting 112.

224. Advanced Accounting Problems. II. 3 hr. PR: Minimum of 18 hr. in accounting with average grade of "B" or higher.

230. Advanced Accounting Theory. II. 3 hr. PR: Accounting 112, 115, and consent.

301. Managerial Control. II. 3 hr.

331, 332. Thesis. I, II. 2 or 3 hr.

BUSINESS LAW

111. Business Law. I, II. 3 hr.

112. Business Law. I, II. 3 hr. PR: Business Law 111.

ECONOMICS

1. Principles of Economics. I, II. 3 hr.

2. Principles of Economics. I, II. 3 hr. PR: Econ. 1.

(Note: Econ. 1 and 2 are prerequisite to upper-division courses in Commerce).

111. Money and Banking. I, II. 3 hr.

115. Labor Problems. I, II. 3 hr.

119. Economics of Consumption. I. 3 hr.

125. Statistics. I, II. 3 hr. PR: Math. 2, 3, or 8.

205. Current Economic Problems. S. 3 hr. PR: Econ. 1 and 2 or consent.

209. Problems in Economics. I, II. 1-3 hr.

210. Comparative Economic Systems. II. 3 hr.

217. Trade Unionism. I. 3 hr. PR: Econ. 115 or consent.

218. Collective Bargaining. II. 3 hr. PR: Econ. 115 or consent.

219. The Economics of Wages and the Labor Market. II. 3 hr. PR: Econ. 115 or consent.

221. Economic Theory. I. 3 hr.

222. History of Economic Thought. II. 3 hr.

225. Transportation. I. 3 hr.

230. Public Utilities. II. 3 hr.

235. Economic Growth and Business Cycles. I. 3 hr. PR: Econ. 125 or consent.

241. Public Finance. I. 3 hr.

245. Government and Business. II. 3 hr.

250. International Trade. II. 3 hr. PR: Consent.

256. Advanced Statistics. II. 3 hr. PR: Econ. 125 or equivalent.

301. Managerial Economics I. 3 hr.

302. Research and Reports. I. 3 hr.

310. Contemporary Economic Theory. II. 3 hr. PR: Econ. 221.

315. Bibliography and Research. I. 2 hr.

319. Seminar in Economics. II. 2 hr.

331, 332. Thesis. I, II. 2 or 3 hr.

FINANCE

111. Business Finance. I, II. 3 hr. PR: Accounting 1 and 2 or consent.

115. General Insurance. I, II. 3 hr.

120. Life Insurance. I. 3 hr. PR: Finance 115.

150. Investments. II. 3 hr. PR: Finance 111 or consent.

161. Real Estate. I. 3 hr.

216. Casualty Insurance. II. 3 hr. PR: Finance 115.

217. Property Insurance. I. 3 hr. PR: Finance 115.

313. Financial Administration. II. 3 hr.

331, 332. Thesis. I, II. 2 or 3 hr.

MANAGEMENT

111. Industrial Management. I, II. 3 hr.

112. Production Management. II. 3 hr. PR: Management 111.

213. Problems in Business Administration. I, II. 1-3 hr.

216. Personnel Management. I, II. 3 hr. PR: Econ. 115.

225. Business Policy. II. 3 hr. PR: Senior standing and consent.

301. Administrative Practices. I. 3 hr.

313. Production Administration. II. 3 hr.

323. Seminar in Business Policy. II. 3 hr.

331, 332. Thesis. I, II. 2 or 3 hr.

MARKETING

111. Principles of Marketing. I, II. 3 hr.

112. Marketing Management. I, II. 3 hr. PR: Marketing 111.

115. Principles of Retailing. I, II. 3 hr. PR: Marketing 111.

120. Principles of Advertising. I, II. 3 hr. PR: Marketing 111 and 112.

210. Industrial Purchasing. I. 3 hr. PR: Senior or graduate standing.

215. Marketing Research. I, II. 2 hr. PR: Senior or graduate standing in marketing, and consent.

313. Marketing Administration. I. 3 hr.

331, 332. Thesis. I, II. 2 or 3 hr.

SECRETARIAL STUDIES

51. Business Communications. II. 3 hr. PR: 6 hr. English composition and ability to type.

61. Typewriting. I. 2 hr.* PR: For secretarial majors, or consent.

62. Typewriting. I, II. 2 hr. PR: Secretarial Studies 61 or equivalent.* For secretarial majors, or consent.

125. Shorthand. I. 4 hr.*

126. Shorthand. II. 4 hr. PR: Secretarial Studies 125 or equivalent.*

131. Secretarial Training and Office Practice. I. 3 hr. PR: Ability to type.*

132. Transcription. II. 2 hr. PR: Consent.*

*Credit will be allowed only to majors in Secretarial Studies in the College of Commerce, and to students in the College of Education with Commerce teaching fields.

The School of Dentistry*

Crown and Bridge Dentistry

236. Crown and Bridge Technics. Yr. 6 hr.

257. Clinical Crown and Bridge Dentistry. Yr. 2 hr.

270. Ceramic Technics. II. 2 hr.

289. Clinical Crown and Bridge Dentistry. Yr. 4 hr.

Dental Anatomy

210. Dental Anatomy. I. 3 hr.

211. Comparative Dental Anatomy. II. 1 hr.

Dental Materials

212. Dental Materials. I. 3 hr.

*For courses of instruction in the Basic Sciences, see page 144.

The curriculum of the School of Dentistry requires that students have a thorough understanding of the basic sciences of anatomy, microanatomy, biochemistry, microbiology, pathology, pharmacology, and physiology. Students here are studying the role of bacteria in dental health, care and treatment.

Endodontics

242. Endodontic Technics. II. 1 hr.

255. Clinical Endodontics. Yr. 2 hr.

280. Clinical Endodontics. Yr. 1 hr.

Medicine

268. Principles of Medicine. II. 2 hr.

279. Physical Diagnosis. I. 1 hr.

288. Principles of Medicine. II. 1 hr.

Operative Dentistry

229. Operative Technics. Yr. 5 hr.

258. Clinical Operative Dentistry. Yr. 4 hr.

283. Clinical Operative Dentistry. Yr. 5 hr.

Oral Diagnosis

264. Oral Diagnosis. Yr. 2 hr.

287. Clinical Oral Diagnosis. Yr. 1 hr.

Oral Roentgenology

267. Oral Roentgenology. Yr. 2 hr.

296. Clinical Oral Roentgenology. I. 1 hr.

Oral Surgery

239. Anesthesiology. II. 1 hr.

259. Oral Surgery. Yr. 3 hr.

284. Clinical Oral Surgery. Yr. 4 hr.

Orthodontics

245. Orthodontic Technics. II. 1 hr.

265. Clinical Orthodontics. II. 1 hr.

285. Clinical Orthodontics. Yr. 2 hr.

Pedodontics

233. Pedodontic Technics II. 1 hr.

261. Clinical Pedodontics. Yr. 2 hr.

286. Clinical Pedodontics. Yr. 2 hr.

Periodontics

240. Periodontic Technics. II. 1 hr.

263. Clinical Periodontics. Yr. 2 hr.

277. Clinical Periodontics. Yr. 2 hr.

Prosthodontics

213. Complete Denture Technics. II. 3 hr.

234. Partial Denture Technics. Yr. 4 hr.

250. Clinical Prosthodontics. Yr. 4 hr.

276. Clinical Prosthodontics. Yr. 4 hr.

Social Relations

226. Oral and Written Communication. II. 2 hr.

290. Ethics. II. 1 hr.

291. History of Dentistry. II. 1 hr.

294. Practice Administration. I. 1 hr.

295. Jurisprudence. I. 1 hr.

297. Public Health Dentistry. II. 1 hr.

Special Courses

299. Research in Dentistry. II. 3 hr.

Graduation from the College of Education and subsequent certification as a qualified teacher in West Virginia's public schools requires a prescribed amount of supervised classroom experience. Student teachers select materials and teaching aids, prepare lesson plans, and conduct their individual class.

The College of Education

Undergraduate Division

No courses in Education except Ed. 102, 103, 104, 105, 106. 107, and 108 are open to sophomores. The following courses are required of teachers for recommendation for a Professional Certificate, Grades 7-12: Ed. 105, 106, 120, 124, 150-170, and enough additional hours chosen from the following approved electives to meet the minimum requirement of 20 hours in Education: 109, 150-170 in a second teaching field, 203, 212, 222, 231, 233, 259, 262 or 266, 276 or 277, 284, 285, and 291. The following courses are required of teachers for recommendation for a Professional Certificate, Grades 1-9: Ed. 105, 106, 141, 142, 143, 144. 145, and 146.

102. Hand Woodworking (I.A.). I. 3 hr.
103. Machine Woodworking (I.A.). II. 3 hr. PR: Ed. 102.
104. Basic Metalwork (I.A.). I. 2 hr.
105. Human Growth and Development—Introduction. I, II, S. 3 hr.
(Note: Ed. 105 is prerequisite to all other Education courses.)
106. Human Growth and Development—Principles of Learning. I, II, S. 3 hr. PR: Ed. 105.
107. General Shop (I.A.). I. 3 hr.
108. Advanced General Shop (I.A.). II. 3 hr.
109. Secondary Education. I, II, S. 3 hr.

110. Maintenance and Construction of Industrial Arts Equipment (I.A.). I, II, S. 2 hr. PR: Ed. 102, 104, and consent.

112. General Metalwork 2 (I.A.). II. 2 hr. PR: Ed. 104.

115. Student Teaching in Elementary-School Music. I, II. 2 hr.

120. Principles of Teaching in Secondary-Schools. I, II, S. 4 hr. PR: Open only to those who qualify for the student teaching block.

121. General Crafts 1 (I.A.). I. 2 hr.

122. General Crafts 2 (I.A.). II. 2 hr. PR: Ed. 121.

124. Student Teaching. I, II, S. 6 hr. PR: Ed. 105, 106, and one elective in Education.

125. Student Teaching in Secondary-School Music. I, II. 4 hr. PR: Same as Ed. 124.

127. Materials and Methods in Public-School Speech and Hearing Therapy. I, II, S. 2-4 hr. PR: Consent.

128. Clinical Practices in Public-School Speech and Hearing Therapy. I, II, S. 2-8 hr. PR: Consent.

130. Materials and Methods in Elementary-School Music. I, II. 2 hr. Conc: Ed. 115.

131. General Electricity 1 (I.A.). I. 2 hr.

132. General Electricity 2 (I.A.). II. 2 hr. PR: Ed. 131.

141. Psychology and Management of the Elementary School. I, II, S. 2 hr. PR: Ed. 105, 106, and enrollment in the elementary undergraduate program.

142. Reading in the Elementary School. I, II, S. 2 hr. PR: Same as Ed. 141.

143. Arithmetic in the Elementary School. I, II, S. 2 hr. PR: Same as Ed. 141.

144. Social Studies in the Elementary School. I, II, S. 2 hr. PR: Same as Ed. 141.

145. Science in the Elementary School. I, II, S. 2 hr. PR: Same as Ed. 141.

146. Student Teaching in the Elementary School. I, II, S. 6 hr. PR: Ed. 142, 143, 144, and enrollment in the elementary undergraduate program.

147. Student Teaching in the Elementary School. I, II, S. 3 hr. PR: Enrollment in the elementary undergraduate program and consent.

148. Student Teaching in the Elementary School. I, II, S. 3 hr. PR: Consent.

149. Language Arts in the Elementary School. I, II, S. 2 hr. PR: Ed. 105, 106, 141, and consent.

150-170. Materials and Methods of High-School Teaching. I, II, S. 2 hr. PR: Consent.

The various sections of this course are:

150. Biology. 2 hr.

152. Physical Education. 2 hr.

153. French. 2 hr.

154. Speech. 2 hr.

155. Library Science. 2 hr.

156. Spanish. 2 hr.

157. Latin. 2 hr.

160. Agriculture. 3 hr.

161. English. 2 hr.

163. Home Economics. 2 hr.

164. Industrial Arts. 2 hr.

165. Mathematics. 2 hr.

166. Physical Science. 2 hr.

167. Social Studies. 2 hr.

168. Art. 2 hr.

169. Music. 2 hr.

170. Commerce. 2 hr.

173. Technical Drawing 1 (I.A.). I. 2 hr.

174. Technical Drawing 2 (I.A.). II. 2 hr. PR: Ed. 173.

180. Graphic Arts 1 (I.A.). I. 2 hr.

181. Graphic Arts 2 (I.A.). II. 2 hr. PR: Ed. 180.

194. Organization of Industrial Arts. II. 2 hr.

202.* Primary-Kindergarten Education. I, II, S. 2 hr. PR: Consent.

203. Organization and Administration of Adult Education. II. 2 hr.

204. Advanced Woodworking, Construction, and Finishing (I.A.). II, S. 3 hr. PR: Ed. 102, 103, or equivalent.

208. Wood Finishing (I.A.). I, S. 2 hr. PR: Ed. 103, 204.

212. Evaluation of Pupil Progress in the Secondary Schools. I, II, S. 2 hr. PR: Consent.

219. Adult Education in Homemaking. I, II. 2 hr.

221. Audio-Visual Resources for Instruction. I, II. 2 hr.

222. Current Practices in Secondary Education. I, II, S. 2 hr.

226. Advanced Student Teaching (Elementary). I, II, S. 3 hr. PR: 3 hr. of student teaching or equivalent, and consent.

231. Philosophy of Education. II, S. 2 hr. PR: 5 hr. in Education courses, senior standing.

233. Educational Sociology. S. 2 hr. PR: 5 hr. in Education courses, senior standing.

238. Industrial Arts Design (I.A.). I, S. 2 hr. PR: Consent.

240. Advanced Metal Working (I.A.). I, S. 2 hr. PR: Ed. 104.

241. Jewelry (I.A.). II, S. 2 hr. PR: Ed. 104.

242. Upholstering (I.A.). S. 2 hr. PR: Ed. 103.

243. Advanced Ceramics (I.A.). II, S. 2 hr. PR: Ed. 122.

244. Advanced Leather Work (I.A.). I, S. 2 hr. PR: Ed. 121.

245. Advanced Plastics (I.A.). II, S. 2 hr. PR: Ed. 121.

246. Advanced Graphic Arts (I.A.). II, S. 2 hr.

247. Auto Mechanics (I.A.). S. 2 hr.

248. Advanced Electricity (I.A.). II, S. 2 hr. PR: Ed. 131.

249. Sheet Metal (I.A.). II, S. 2 hr.

250. Industrial Arts for Elementary Schools (I.A.). II, S. 2 hr.

251. Production of Audio-Visual Resources. II, S. 2 hr. PR: Ed. 221.

259. The Music Education Program. S. 2 hr. PR or concurrent: Ed. 124, or consent.

262. Vocational Home Economics in Secondary Schools. I, II. 3 hr. PR or concurrent: Ed. 120, 124, 163; 25 hr. in Home Economics.

270. Special Problems and Workshops. I, II. 1-4 hr. PR: 14 hr. in Education.

271. Educational Statistical Methods. I, II, S. 2 hr. PR: Senior or graduate status.

274. Workshop: Economic Education. S. 3 hr.

*To receive graduate credit for courses numbered 200-299, the student must have had at least 17 hours in undergraduate Education.

275. Developing the Core Program. II, S. 2 hr. PR or concurrent: Student teaching.

276. Teaching Young and Adult Farmer Classes. I, S. 2 hr. PR: Ed. 105, 106.

277. Organizing and Directing Supervised Farming Programs. II. S. 2 hr. PR: Ed. 160 or consent.

284. Pupil-Personnel Administration. I, II, S. 2 hr. PR: Ed. 105, 106.

285. The Junior High School. I, II. 2 hr. PR: Ed. 105, 106, and consent.

291. Exploratory Reading. S. 2 hr. PR: Consent.

292. Advanced Instruction in Typewriting (B.E.). S. 2 hr. PR: Teacher Certification in Commerce.

293. Advanced Instruction in Shorthand and Transcription (B.E.). S. 2 hr. PR: Teacher Certification in Commerce.

294. Seminar in Business Education (B.E.). S. 2 hr. PR: Same as Ed. 293.

295. Advanced Instruction in Bookkeeping (B.E.). S. 2 hr. PR: Same as Ed. 293.

296. Advanced Instruction in Office Practice and Business Machines (B.E.). S. 2 hr. PR: Same as Ed. 293.

297. Principles of Business Education (B.E.). S. 2 hr. PR: Same as Ed. 293.

Graduate Division

301. Introduction to Educational Research. I, II, S. 2 hr.

303. History of Industrial Education. I, S. 2 hr.

304. Corrective Techniques in Reading Instruction. I, II, S. 2 hr. PR: Ed. 309 or consent.

305. Problems in Reading Instruction. I, II, S. 2 hr. PR: Ed. 304, 309.

306. Social Studies in the Elementary School. I, II, S. 2 hr. PR: 10 hr. undergraduate credit in elementary education, or consent.

307. Science in the Elementary School. II, S. 2 hr. PR: Same as Ed. 306.

308. The Teaching of Arithmetic. I, S. 2 hr. PR: Same as Ed. 306.

309. The Teaching of Reading. I, II, S. 2 hr. PR: Same as Ed. 306.

310. School Shop Planning. I, S. 2 hr.

311. School Shop Safety Programs. II. S. 2 hr.

312. Evaluation of Pupil Progress in the Elementary School. I, II, S. 2 hr. PR: Consent.

313. Elementary-School Guidance. I, II, S. 2 hr. PR: Consent.

315. Current Practices in Elementary Education. I, II, S. 2 hr. PR: Consent.

318. Planning Programs and Courses for Vocational Agriculture Departments. I, S. 2 hr. PR: Ed. 124.

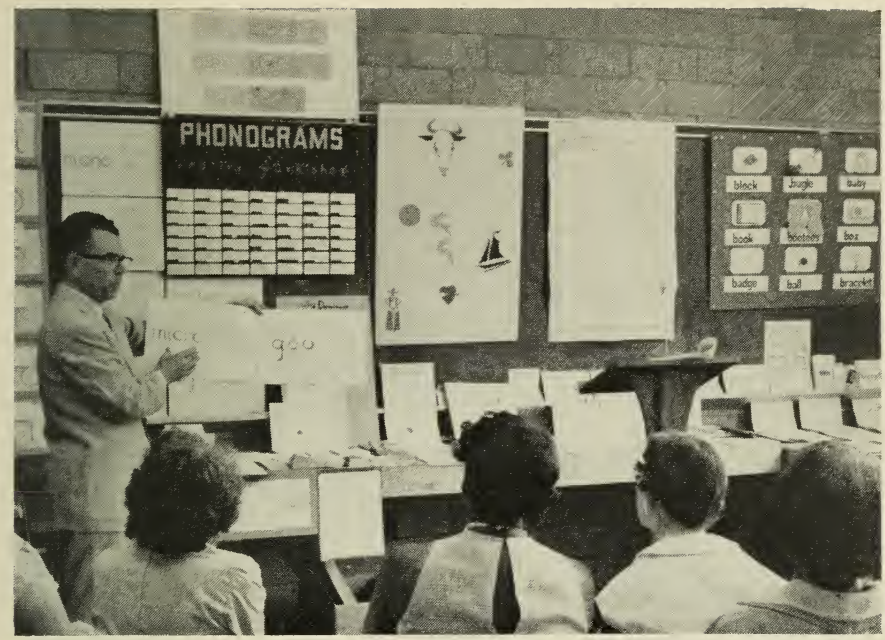
319. Special Problems in Teaching General Shop. S. 3 hr. PR: Ed. 107 or equivalent.

320, 321. Special Topics in Industrial Arts. I, II, S. 2-3 hr. each. PR: Consent.

322. Organizing Programs of Audio-Visual Instruction. I, S. 2 hr. PR: Ed. 221.

326. Practice in Supervision of Elementary School Instruction. S. 2 hr. PR: 6 graduate hr. of elementary education, or consent.

327. Demonstration and Practice in the Supervision of Secondary School Instruction. II. S. 2 hr. PR: Consent.



Education and training for the teacher continues long after the earning of the degree and the certificate. Many teachers return to the University campus for summer courses and workshops The College of Education plans and conducts workshops in economics, reading, conservation, and other fields.

335. The Elementary-School Curriculum. I, II, S. 2 hr. PR: 10 hr. of undergraduate credit in elementary education, or consent.

336. The Secondary School Curriculum. I, II, S. 2 hr. PR: High-School teaching experience, or consent.

337. Problems in Secondary-School Curriculum. I, II, S. 2 hr. PR: 8 hr. graduate education, including Ed. 336.

339. Public-School Organization and Administration. I, S. 2 hr. PR: 20 hr. of Education courses, and consent.

340. Public-School Finance. S. 2 hr. PR or concurrent: Ed. 339, and consent.

341. School Buildings and Equipment. I, S. 2 hr. PR: Same as Ed. 340.

342. Public Education and the Law. I, II, S. 2 hr.

343. School Surveys. S. 2 hr. PR: Same as Ed. 340.

344. Staff-Personnel Administration. S. 2 hr. PR: Same as Ed. 340.

346. Principles of Supervision. I, S. 2 hr.

348. Human Development and Behavior. I, II, S. 3 hr.

351. Principles of Communication. I, II, S. 2 hr.

353. The Secondary-School Principal. II, S. 2 hr. PR: Ed. 339 and high-school teaching experience, or consent.

356. The Elementary-School Principal. S. 2 hr. PR: 6 graduate hr. of elementary education, or consent.

357. Organization and Administration of Vocational Education. S. 2 hr. PR: Ed. 339.

360. Problem in Education. I, II, S. 1-3 hr.

361. Thesis in Education. I, II, S. 1-6 hr.

362. Project in Education. I, II, S. 1-6 hr.

363. Dissertation. I, II, S.

364. Advanced Methods in Teaching Industrial Arts. II, S. 2 hr. PR: Ed. 194.

365. Curriculum Construction in Industrial Arts. S. 3 hr. PR: Consent.

366. Teaching the Language Arts. I, II, S. 2 hr. PR: Consent.

367. Teaching the Social Studies in Secondary Schools. I, II, S. 2 hr. PR: Consent.

368. Nature and Needs of Exceptional Children. I, II, S. 3 hr.

369. Curriculum, Materials, and Methods for Mentally Retarded. I, II, S. 3 hr.

371. Curriculum, Materials, and Methods for Mentally Gifted. I, II, S. 3 hr.

372. Statistical Analysis in Education. I, II, S. 2 hr. PR: Ed. 271 or consent.

373. Basic Course in Principles and Practices of Guidance. I, II, S. 3 hr.

374. Occupational Information Techniques. II, S. 2 hr. PR: Ed. 373.

375. Individual Inventory Techniques. II, S. 2 hr. PR: Ed. 373.

376. Counseling Techniques. I, II, S. 2 hr. PR: Ed. 373, 374, 375.

377. Special Counseling Problems. I, II, S. 3 hr. PR: Ed. 373, 374, 375, 376.

378. Advanced Studies of Human Adjustment. II, S. 2 hr. PR: Same as Ed. 377.

379. Organization and Administration of Guidance Services. II, S. 2 hr. PR: Same as Ed. 377.

380, 381, 382, 383. Practice in Supervision. I, II. 2 hr. each. PR: Assignment to actual full-time work in supervision in a school system, previous certification, and consent.

385. History of Education in the United States. I, II, S. 2 hr.

395, 396, 397, 398. Practicum. I, II, S. 1-4 hr. per semester or term, aggregating not more than 12 hr. PR: 8 graduate hr. in Education.

399. Techniques of Educational Research. II. 2 hr. PR: Ed. 372 and consent.

The College of Engineering

AERO-SPACE ENGINEERING

Undergraduate Division

116. Aircraft Detail Design. II. 2 hr. PR: M.E. 26.

201. Elementary Aerodynamics. I. 3 hr. PR: T.A.M. 101, Physics 111 or equivalent.

202. Aerodynamics. II. 3 hr. PR: Math. 253, A.E. 201, and/or concurrent: C.E. 115.

203. Applied Aerodynamics. I. 3 hr. PR: A.E. 209.

205. Experimental Aerodynamics. I. 2 hr. PR: A.E. 201.

207. Aerodynamic Design. I. 3 hr. PR: A.E. 209.

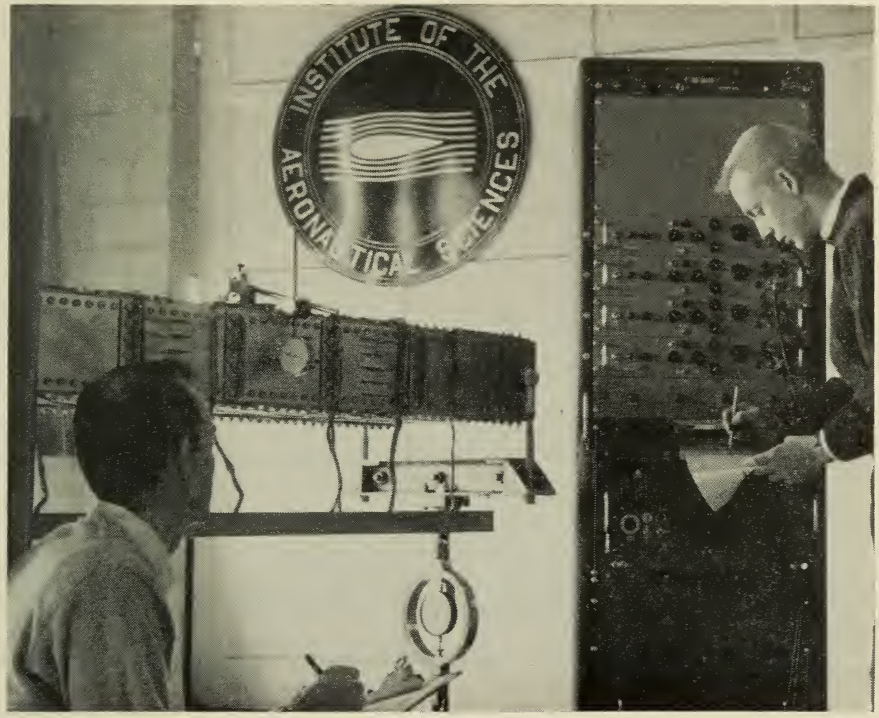
208. Flight Testing. I, II. 2 hr. PR: A.E. 209.

209. Aircraft Performance and Stability. II. 4 hr. PR: A.E. 201.

210. Basic Aircraft Structures. II. 3 hr. PR or concurrent: T.A.M. 103.

211. Redundant Aircraft Structures. I. 3 hr. PR: A.E. 210 or equivalent.

212. Applied Aircraft Design. II. 3 hr. PR: A.E. 207, 211.



Students working toward degrees in Aero-Space Engineering receive thorough instruction in the principles of aerodynamics, aircraft performance and stability, design, and component testing standards required in the manufacture of airplanes. Students here are measuring the effect of strain on assembly in the Aircraft Structures laboratory.

213. Aircraft Structures Laboratory. II. 1 hr. PR: A.E. 211.

217. Aircraft Structural Design. I. 3 hr. PR: T.A.M. 103.

218. Aeroelasticity. I. 3 hr. PR: A.E. 210.

220. Seminar. I, II. 2-6 hr. PR: Senior standing and consent.

222. Aircraft Propulsion. I, II. 2 hr. PR: A.E. 201, M.E. 121.

223. Aero-Thermodynamics. I. 3 hr. PR: M.E. 121.

224. Aircraft Reaction Engines. II. 3 hr. PR: A.E. 223.

225. Principles of Guided Missile Design. II. 3 hr. PR: A.E. 223; PR or concurrent: A.E. 224.

280. Aeronautical Problems. I, II. 1-3 hr.

299. Thesis. I, II. 2-6 hr. PR: Senior standing and consent.

Graduate Division

351. Dynamics of Viscous Fluids. I, II. PR: A.E. 202.

352. Internal Aerodynamics. I, II. PR: A.E. 223.

353. Advanced Analytical Aerodynamics. I, II. PR: A.E. 202.

354. Advanced Topics in Aerodynamics. I, II. PR: A.E. 209.

355. Gas Dynamics. I, II. PR: A.E. 223.

356. Instrumentation and Techniques of Supersonic Flow. I, II. 3 hr.

357. Special Problems. I, II. 2-4 hr. PR: Consent.

358. Dynamics of Trajectories. I, II. 3 hr. PR: Math. 245, 251; A.E. 223, 224.

372. Aeroelasticity. I, II. 3 hr. PR: A.E. 218.

373. Dynamic Loads. I, II. 3 hr. PR: A.E. 203, 218.

374. Materials and Theories of Failures. I, II. 3 hr. PR: A.E. 211.

375. Advanced Aircraft Structures. I, II. 3 hr. PR: A.E. 211.

AVIATION

Undergraduate Division

170. Aviation Ground School. I, II, S. 2 hr.

171, 172. Flight Training. I, II, S. 1 hr. each.

173, 175, 176, 177. Advanced Flight Training. I, II, S. 1 hr. each.

AGRICULTURAL ENGINEERING

Undergraduate Division

10. Introductory Agricultural Engineering. I. 3 hr.

100. Farm Structures. II. 3 hr. PR: T.A.M. 102.

110. Application of Electricity to Agriculture. II. 3 hr. PR: E.E. 106.

140. Soil and Water Conservation. I. 3 hr. PR: C.E. 115.

180, 181. Assigned Topics. I, II. 1-4 hr. per semester.

190. Farm Machinery. II. 3 hr. PR: M.E. 113.

200. Seminar. I. 1 hr. PR: Senior standing.

230. Farm Power. I. 4 hr. PR: M.E. 121.

240. Hydrology. I. 2 hr. PR: C.E. 115.

Graduate Division

320, 321. Special Topics. I, II, S. 1-6 hr. (For the Master's Degree, Special Topics may count 2-4 hr.; maximum credit, 6 hr.)

397. Research. I and II. 1-6 hr.

CHEMICAL ENGINEERING

Undergraduate Division

140. Chemical Engineering Calculations. I. 2 hr. PR: Chem. 2 and Math. 3.

160. Elements of Ceramics. I, II. 3 hr. PR: Chem. 15.

161. Ceramics Laboratory. I, II. 1 hr. PR or concurrent: Ch.E. 160.

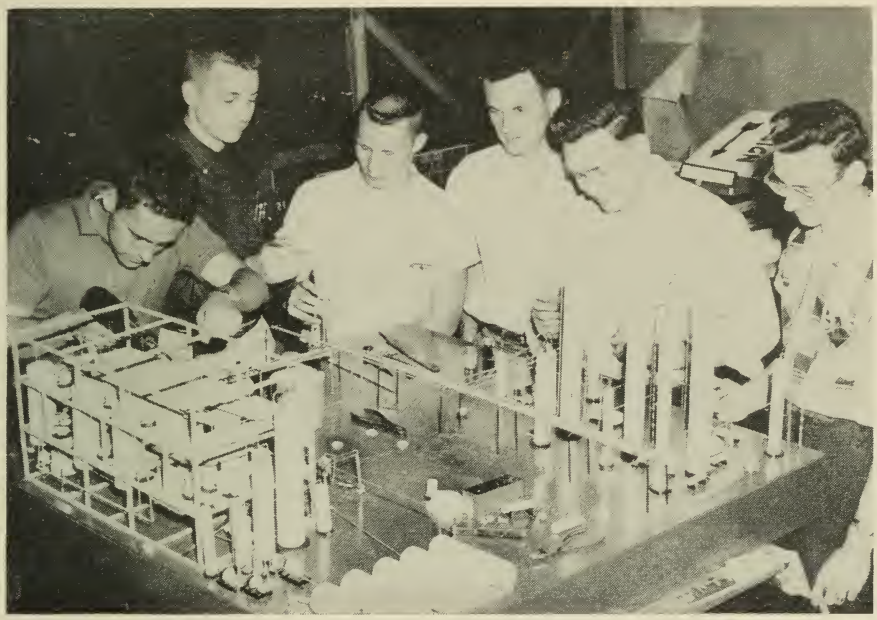
200. Chemical Engineering Operations. I, II, S. 2 hr.

205. Principles of Chemical Engineering. I. 5 hr. PR or concurrent: Chem. 260.

207. Principles of Chemical Engineering. II. 5 hr.

211, 212. Chemical Engineering Laboratory. I, II, S. 2 hr PR: Ch.E. 207.

224. Unit Organic Processes. II. 3 hr. PR: Chem. 238 and Ch.E. 207.



The University's Chemical Engineering curriculum qualifies young engineers for positions in the design, construction, operation, and management of chemical manufacturing plants. These students have completed a design project—planning and performing all functions from selecting the site to final layout of a modern plant.

234. Chemical Technology. I, S. 2 hr. PR: Chem. 233.

235. Chemical Technology. II, S. 2 hr. PR: Chem. 233.

238. Electrochemistry and Corrosion. I, II. 2 hr. PR: Chem. 2; and PR or concurrent: E.E. 105 or 130, or Chem. 260.

242. Chemical Engineering Thermodynamics and Kinetics. I. 3 hr. PR: Ch.E. 140 and Chem 261.

243. Chemical Engineering Thermodynamics and Kinetics. II. 3 hr. PR: Ch.E. 242.

248. Design of Experiments. II. 2 hr. PR: Math. 240, or Math. 253.

250. Physical Metallurgy. I, II. 3 hr. PR: Physics 112.

251. Metallography. I, II. 2 hr. PR or concurrent: Ch.E. 250.

252. Ferrous Metallurgy. I. 2 hr. PR: Physics 112.

253. Nonferrous Metallurgy. II. 2 hr. PR: Physics 112.

261. Ceramics. I, II. 3 hr. PR: Ch.E. 160.

262. Refractories. I. 2 hr. PR: Ch.E. 160.

263. Glass. II. 2 hr. PR or concurrent: Chem. 15.

264. Enamels, Glazes, and Colors. II. 3 hr. PR or concurrent: Ch.E. 261.

269. X-Ray Diffraction. I, II. 2 hr.

272. Chemical Engineering Design. I. 3 hr. PR: Ch.E. 207, T.A.M. 102, and Econ. 2.

273. Chemical Engineering Design. II. 3 hr.

280. Chemical Engineering Problems. 1-6 hr. PR: Junior standing.

281. Fuel Technology. I. 2 hr. PR: Chem. 15.

282. Fuel Technology. II. 2 hr. PR: Ch.E. 281.

283. Process Dynamics. I, II. 3 hr. PR: Math 253 and Ch.E. 207.

284. Industrial Instrumentation and Control. I, II, S. 3 hr. PR: Math. 108.

286. Petroleum Technology. I. 2 hr. PR: Chem. 233.

290. Introductory Nuclear Engineering. I, II. 3 hr. PR: Physics 112.

297. Thesis. I, II. 2-5 hr.

Graduate Division

300. Seminar. I, II, S. 1-6 hr.

302. Advanced Heat Transfer. I, II. 2-5 hr. PR: Ch.E. 207 and 243 and Math. 253.

304. Advanced Mass Transfer. I, II, S. 2-5 hr. PR: Ch.E. 207 and 243, and Math. 253.

306. Advanced Fluid Dynamics. I, II, S. 2-5 hr. PR: Ch.E. 207 and 243, and Math. 253. Ch.E. 207, or M.E. 125 and C.E. 115.

307. Advanced Distillation. I, II, S. 2-5 hr. PR: Ch.E. 207 or Chem. 261.

323, 324. Advanced Unit Processes. I, II, S. 2-5 hr. PR: Chem. 238 and Ch.E. 207.

340. Phase Equilibria. I, II, S. 2 hr. PR: Chem. 261.

341. Mathematical Methods in Chemical Engineering. I, II. 3 hr. PR: Math. 253.

344. Advanced Chemical Engineering Thermodynamics. I, II, S. 3 hr. PR: Ch.E. 243.

345. Advanced Chemical Engineering Kinetics. I, II, S. 3 hr. PR: Ch.E. 243.

350. Advanced Physical Metallurgy. I, 3 hr. PR: Ch.E. 250.

351. Advanced Metallography Laboratory. I, II. 3 hr. PR: Ch.E. 251.

352. Advanced Ferrous Metallurgy. I. 3 hr. PR: Ch.E. 252.

353. Advanced Nonferrous Metallurgy. II. 3 hr. PR: Ch.E. 253.

354. Advanced Physical Metallurgy. II. 3 hr.

355. Advanced Metallurgical Calculations. II. 3 hr. PR: Ch.E. 243.

360. Advanced Ceramic Technology. I, II. 3 hr. PR: Ch.E. 161.

361. Advanced Ceramic Laboratory. I, II. 2 hr. PR or concurrent: Ch.E. 360.

372. Advanced Chemical Engineering Design. I, II, S. 2-5 hr. PR: Ch.E. 273.

383. Advanced Systems Engineering. I, II. 3 hr. PR: Ch.E. 283 and 284.

390. Principles of Nuclear Engineering. I. 3 hr. PR or concurrent: Physics 225 or equivalent and Physics 287 or equivalent.

391. Principles of Nuclear Engineering. II. 3 hr. PR: Ch.E. 390.

392. Interaction of Radiation and Matter. I. 3 hr. PR or concurrent: Physics 225.

393. Nuclear Measurements Laboratory. II. 3 hr. PR or concurrent: Ch.E. 390 or equivalent.

397. Research. I, II, S. 1-10 hr. PR: Ch.E. 207 and 212.

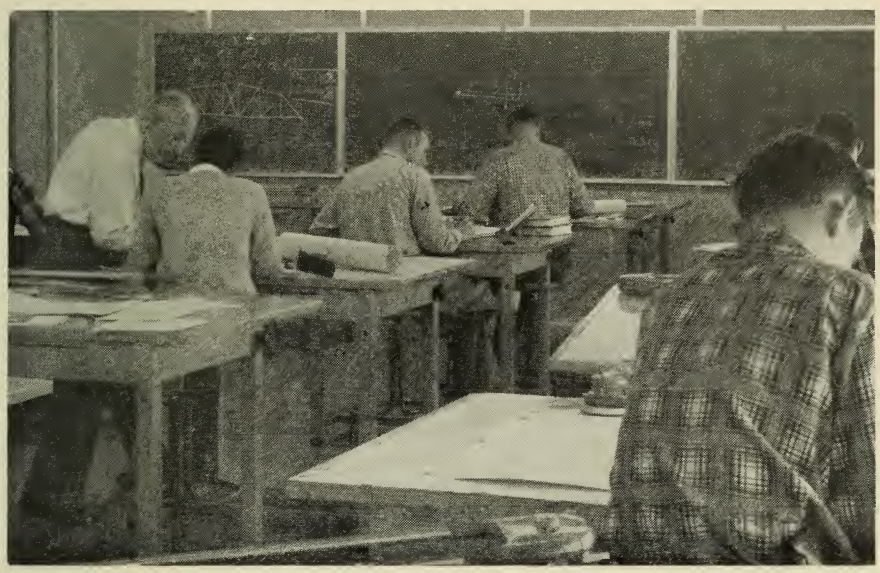
CIVIL ENGINEERING

Undergraduate Division

1. Surveying. II. 2 hr. PR: Math. 4.

2. Surveying. II. 3 hr. PR: Math. 4.

5. Land Surveying. I. 4 hr. PR: Math. 10.



This class of student civil engineers is engaged in solving basic problems in the design of steel structures, and will advance to more complicated problems as they approach graduation. The civil engineer is primarily concerned with major construction projects—railroads, highways, bridges, waterways, etc.

6. Topographic Mapping. II. 2 hr. PR: C.E. 5.
104. Summer Surveying. S. (5 weeks). 5 hr. PR: C.E. 2.
115. Fluid Mechanics. I, II, S. 3 hr. PR or concurrent: T.A.M. 104.
116. Fluid Mechanics Laboratory. I, II. 1 hr. PR or concurrent: C.E. 115.
131. Highway Engineering. II. 4 hr. PR: C.E. 104.
141. Railway Engineering. II. 3 hr. PR: C.E. 104.
145. Water Supply and Sewerage. II. 5 hr. PR: C.E. 115.
160. Structural Analysis. I, II. 4 hr. PR or concurrent: T.A.M. 102.
170. Sturctural Engineering. II. 2 or 3 hr. PR: T.A.M. 102.
179. Engineering Materials. I. 2 hr. PR: T.A.M. 103.
190. Contracts and Specifications. II. 2 hr. PR: Junior standing.
197. Thesis. I, II. 2 to 4 hr.
210. Photogrammetry. I. 3 hr. PR: C.E. 104.
211. Geodesy. II. 3 hr. PR: C.E. 104 and Math. 108.
216. Fluid Mechanics Laboratory. I, II. 2 hr. PR or concurrent: C.E. 115.
220. Water-Power Engineering. II. 2 hr. PR: C.E. 115.
221. Engineering Hydraulics. I, II. 3 hr. PR: C.E. 145 or consent.
230. Traffic Engineering. I, II. 3 hr. PR: C.E. 131, T.A.M. 104.
231. Concrete and Aggregates. I, II. 3 hr. PR: C.E. 131, 179, T.A.M. 103.
236. Highway Materials Laboratory. II. 3 hr. PR: T.A.M. 103.
250. Water Purification. I. 3 or 4 hr. PR or concurrent: C.E. 145.

251. Public Health Engineering. I, II. 3 hr. PR: C.E. 145.
256. Sewage Disposal. II. 3 hr. PR: C.E. 115.
260. Statically Indeterminate Structures. I. 3 hr. PR: C.E. 160.
261. Statically Indeterminate Structures. I, II. 3 hr. PR: C.E. 260.
271. Structural Design. II. 3 hr. PR: C.E. 160, 170.
275. Reinforced Concrete. I. 3 hr. PR: C.E. 160. 170.
280. Soil Engineering. II. 3 hr. PR: C.E. 115, 160.
281. Foundations Engineering. I, II. 3 hr. PR: C.E. 131, 280.
290. Civil Problems. II. 1-4 hr. PR: Junior standing.

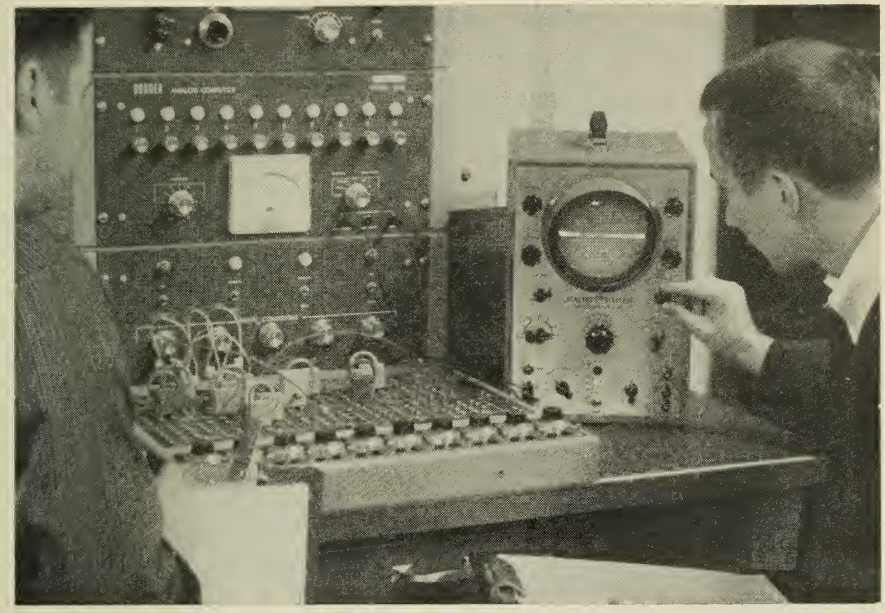
Graduate Division

315. Advanced Fluid Mechanics. II. 3 hr. PR: C.E. 115.
330. Bituminous Materials and Mixtures. I, II. 3 hr. PR: C.E. 131, 179.
331. Pavement Design. I, II. 3 hr. PR: C.E. 131, 280.
332. Highway Economics and Planning. I, II. 3 hr. PR: Consent.
333. Geometric Design of Highways. I, II. 3 hr. PR: Consent.
351. Advanced Water-Supply Engineering. I, II. 2-6 hr. PR: C.E. 145.
356. Sewerage and Sewage Disposal. I, II. 2-6 hr. PR: C.E. 145.
360. Statically Indeterminate Structures. I. 3 hr. PR: C.E. 260.
361. Structural Theory and Design. II. 3 hr. PR: C.E. 360.
375. Reinforced Concrete Design. I. 3 hr. PR: C.E. 275.
376. Behavior of Reinforced Concrete Members. I. 3 hr. PR or concurrent: C.E. 375.
377. Behavior of Reinforced Concrete Structures. II. 3 hr. PR: C.E. 376.
380. Soil Mechanics. I, II. 2-6 hr.
381. Soil Testing. I, II. 3 hr. PR: C.E. 280.
382. Foundations and Earthwork Design. I, II. 3 hr. PR: C.E. 380.
390. Advanced Design Problems. I, II. 2-6 hr.
395. Seminar. I, II. 1-2 hr. PR: Consent
397. Research. I, II. 2-6 hr.

ELECTRICAL ENGINEERING

Undergraduate Division

10. Introductory Electrical Engineering. I, II, S. 2 hr. PR: Math. 5.
104. Illumination. I, II. 3 hr. PR: Physics 112 and Math. 108.
105. Electrical Fundamentals. I, II. 4 hr. PR: Math. 108 and Physics 112.
106. Electrical Machinery. I, II. 4 hr. PR: E.E. 105 or consent.
110. Elements of Electrical Engineering. 5 hr. PR: Physics 112. 3 hr. rec., 3 hr. lab.
120. Electrical and Magnetic Circuits. I, II, S. 3 hr. PR: E.E. 10; PR or concurrent: Math. 108, Physics 112.
121. Electrical Measurements Laboratory. I, II, S. 2 hr.
125. A.C. Circuits. I, II. 4 hr. PR: E.E. 120 and Math. 108.
126. Electric and Magnetic Fields. I, II. 3 hr. PR: E.E. 120 and Math. 108.



Electronic computers hold the attention of these electrical engineering students who are interested in their theory, construction, operation, and programming. The development of the computer and other data processing equipment has opened up many new career opportunities in industry and research.

132. Electromechanical Devices. I, II. 4 hr. PR: E.E. 125 and 126.
150. Electronics. I, II. 3 hr. PR: E.E. 125, 126.
180. Electrical Problems. I, II. 1-3 hr.
205. Industrial Electronics. I, II. 3 hr. PR: E.E. 105.
233. Electromechanical Devices. I, II. 4 hr. PR: E.E. 132.
235. Electrical Machinery. I. 3 hr. PR: E.E. 133 or consent.
236. Electrical Machinery. II. 3 hr. PR: E.E. 133 or consent.
244. Electrical Calculations and Design. I. 3 hr. PR: E.E. 133.
245. Electric Control. I, II. 3 hr. PR: E.E. 133.
252. Electronics. I, II. 3 hr. PR: E.E. 250.
257. Transistor Circuits. I, II. 3 hr. PR: E.E. 252 or consent.
260. Transmission Lines. I, II. 3 hr. PR: E.E. 125, 126, Math. 253.
261. Networks and Filters. I, II. 3 hr. PR: E.E. 260 or consent.
262. Electronics and Communications Laboratory. I, II. 2 hr.
264. Radio Engineering. I, II. 3 hr. PR: E.E. 252 or consent.
265. Radio Laboratory. I, II. 3 hr.
280. Electrical Problems. I, II. 1-3 hr.
281. Electrical Power Systems. I. 3 hr. PR: E.E. 260 or consent.
282. Symmetrical Components. II. 3 hr. PR: E.E. 260 or consent.
284. Transients. I, II. 3 hr. PR: E.E. 125 and Math. 253.

285. Electric-Power Transmission and Distribution. I, II. 3 hr. PR: E.E. 260.
286. Fundamentals of Servomechanisms. I, II. 3 hr. PR: E.E. 284.
287. Industrial Electronics and Controls. I, II. 3 hr. PR: E.E. 250 or consent.
288. Antennas. II. 3 hr. PR: E.E. 264 or consent.
293. Electronic Computers. II. 3 hr. PR: E.E. 284.
299. Ultra-High-Frequency Technology. II. 3 hr. PR: E.E. 264 or consent.

Graduate Division

300. Seminar. I, II, S. 1-3 hr. PR: Consent.
301. Electrical Power Systems. I. 3 hr. PR: E.E. 281 or consent.
325. Advanced Linear Circuits Analysis. I. 3 hr. PR: Consent.
326. Advanced Electric and Magnetic Field Theory. I. 3 hr. PR: Consent.
330. Electrical Machinery. II. 3 hr. PR: E.E. 235 or consent.
348. Nonlinear Problems in Electrical Engineering. I. 3 hr. PR: Consent.
350. Electronics Circuits. I, II. 3 hr. PR: E.E. 252.
351. Physical Electronics. II. 3 hr. PR: E.E. 252.
361. Modern Network Synthesis. II. 3 hr. PR: E.E. 325.
365. Noise Theory. I. 3 hr. PR: Consent.
386. Servomechanisms. II. 3 hr. PR: E.E. 286 or consent.
387. Sampled-Data Control Systems. II. 3 hr. PR: 386 or consent.
397. Research. I, II. 1-6 hr.

GENERAL ENGINEERING

1. Engineering Lectures. I. (Credit).
100. Inspection Trip. II. (Credit).
190. Law for Engineers. I, II. 3 hr. PR: T.A.M. 102.

INDUSTRIAL ENGINEERING

Undergraduate Division

7. Welding and Heat Treatment. I, II, S. 1 hr.
11. Machine Work. I, II, S. 2 hr.
15. Welding, Forming, and Heat Treatment. I, II, S. 2 hr.
31. Principles of Industrial Engineering. I, II. 2 hr.
40. Industrial Mechanisms. I, II. 1 hr. PR: M.E. 20.
100. Manufacturing Processes. I, II, S. 3 hr.
110. Tool Design. I, II. 3 hr. PR: T.A.M. 102.
131. Fundamentals of Industrial Engineering. I, II. 2 hr. PR: Sophomore standing.
140. Motion and Time Study. I, II, S. 3 hr. PR: Junior standing.
142. Production Control. I, II, S. 2 hr. PR or concurrent: I.E. 140.
151. Accounting for Engineers. I, II, S. 4 hr. PR: Junior standing.
160. Work Measurement and Methods Engineering. I, II. 4 hr. PR: Junior standing.
200. Metal-Cutting Theory and Practice. I, II. 3 hr. PR: I.E. 100 and Ch.E. 250.

These industrial engineering students are laying out a schematic diagram of a manufacturing plant, determining the location of each machine and operation, working up traffic lanes, and solving other elements of the production management problem. The course of study may include plant layout and design, statistical decision-making, and methods analysis

211. Industrial Engineering Problems. I, II. 1-3 hr. PR: I.E. 140; Senior standing.

214. Advanced Analysis of Engineering Data. I, II, S. 3 hr. PR: I.E. 244.

215. Statistical Decision Making. I, II, S. 3 hr. PR: I.E. 244 or consent.

240. Motion and Time Study. I, II, S. 3 hr. PR: Junior standing, non-industrial engineering students.

244. Engineering Statistics. I, II, S. 3 hr. PR or Conc: Math. 108.

250. Electronic Computer Data Processing. II. 3 hr. PR: Senior standing.

254. Introduction to Operations Research. I, II. 3 hr. PR: I.E. 142 and 244, or consent.

286. Engineering Economy. I, II, S. 2 hr. PR: Junior standing.

287. Engineering Economy. I, II. 3 hr. PR: Junior standing.

288. Job Evaluation and Wage Incentives. I, II, S. 2 hr. PR: I.E. 140 or consent.

290. Industrial Statistics. I, II, S. 2 hr. PR: I.E. 244.

292. Plant Layout and Design. I, II, S. 3 hr. PR: I.E. 142.

294. Standard Manufacturing Costs. I, II, S. 3 hr. PR: I.E. 151.

Graduate Division

300. Advanced Metal-Cutting Theory and Practice. I, II. 3 hr. PR: I.E. 200.

311. Seminar. I, II, S. 1-3 hr. PR: Consent.

315. Management Control. I, II, S. 3 hr. PR: I.E. 151 or consent.

350. Queueing Theory. I, II. 3 hr. PR: I.E. 244.

361. Methods Analysis and Work Simplification. I, II. 3 hr. PR: I.E. 140, 286.

370. Theory of Industrial Engineering and Organization. I, II, S. 3 hr. PR: Graduate standing and consent.

371. Methods Analysis. I, II. 2 hr. PR: I.E. 140 or I.E. 240.

372. Advanced Time Study. I, II, S. 3 hr. PR: I.E. 140.

373. Budget Control. I, II. 3 hr. PR: I.E. 294.

374. Advanced Engineering Economy. I, II. 3 hr. PR: I.E. 286 or I.E. 287.

380. Integrated Data Processing. I, II. 3 hr. PR: I.E. 250 and consent.

390. Advanced Industrial Statistics. I, II. 3 hr. PR: I.E. 290.

397. Research. I, II. 1-6 hr.

MECHANICAL ENGINEERING

Undergraduate Division

20. Engineering Drawing. I, II, S. 3 hr. PR: Plane geometry.

26. Descriptive Geometry. I, II, S. 2 hr. PR: M.E. 20, Math. 4 and solid geometry.

39. Mechanism. I, II, 2 hr. PR: M.E. 26.

112. Kinematics and Dynamics of Machines. II. 3 hr. PR: M.E. 39 and T.A.M. 104.

113. Design of Machine Members. I. 3 hr. PR: T.A.M. 103 and M.E. 112 or consent.

120. Engineering Thermodynamics. I. 3 hr. PR: Physics 111 and Math. 108.

121. Thermodynamics of Engineering. I, II, S. 3 hr. PR: Physics 111, Math. 108.

122. Mechanical Laboratory. I, II. 1 hr. PR: M.E. 121.

125. Engineering Thermodynamics. II. 3 hr. PR: M.E. 120 or consent.

132. Mechanical Laboratory. II. 2 hr. PR: M.E. 120.

202. Engineering Analysis and Design. II. 3 hr. PR: M.E. 113 and consent.

203. Machine Design. II. 3 hr. PR: M.E. 113.

204. Mechanical Vibrations. I. 3 hr. PR: M.E. 112 and Math. 253, or consent.

205. Advanced Kinematics. II. 3 hr. PR: M.E. 112 and Math. 253, or consent.

223. Steam Power Plants. I. 3 hr. PR: M.E. 125.

224. Steam Turbines. I, II, 3 hr. PR: M.E. 125.

228. Engineering Laboratory. I. 1 hr. PR: M.E. 132.

229. Internal Combustion Engines. I. 3 hr. PR: M.E. 121 or M.E. 125.

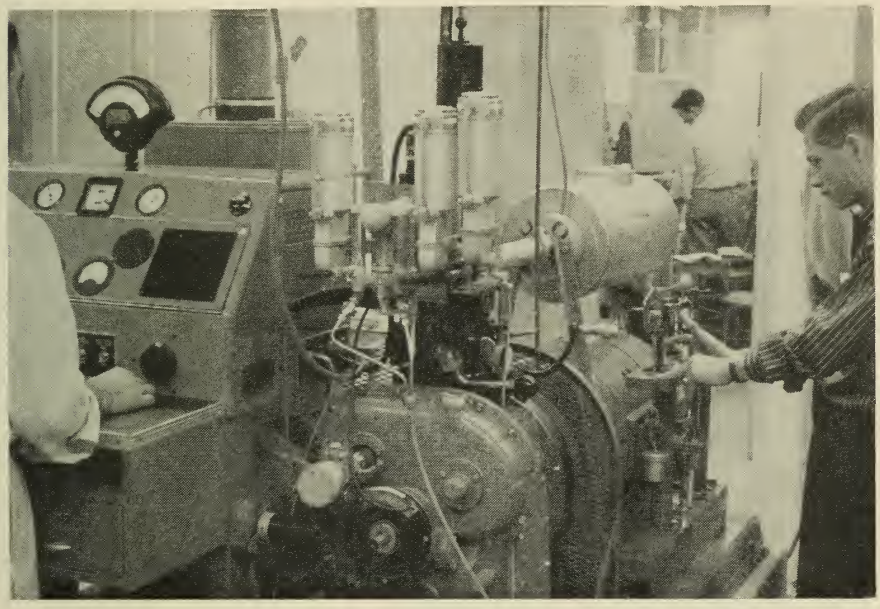
230. Heat Transmission. I, II. 3 hr. PR: M.E. 125 or consent.

231. Introduction to Gas Dynamics. I, II. 3 hr. PR: M.E. 121 or M.E. 125 and Math. 240 or 253.

250. Heating, Ventilating, and Air Conditioning. II. 3 hr. PR. M.E. 125 or consent.

260. Introductory Engineering Systems Analysis. I, II. 3 hr. PR: Senior standing.

265. Engineering Acoustics. I, II. 3 hr. PR: Consent.



In the Mechanical Engineering laboratory, students are testing an engine in order to determine the power it can produce at various speeds. In other classes they study kinematics and dynamics of machines, thermodynamics, vibration and heat transfer. The modern automobile engine is a classic example of the work of the mechanical engineer.

270. Industrial Lubrication. I, II. 3 hr. PR: T.A.M. 103 and M.E. 112.

271. Fluid Power Control. I, II. 3 hr. PR: M.E. 121 or 125 and C.E. 115 concurrently.

280. Mechanical Problems. I, II. 1-6 hr.

Graduate Division

300. Seminar. I, II, S. 1-3 hr. PR: Consent.

303. Advanced Machine Design. I, II. 3 hr. PR: M.E. 203.

320. Advanced Thermodynamics. I, II. 3 hr. PR: M.E. 125.

330. Advanced Heat Transfer. I, II. 3 hr. PR: M.E. 230 or consent.

331. Advanced Heat Transfer (Cont'd.). I, II. 3 hr. PR: M.E. 330.

351. Advanced Internal Combustion Engines. I, II. 3 hr. PR: M.E. 229 or consent.

352. Turbomachinery. I, II. 3 hr. PR: M.E. 121 or 125.

354. Advanced Refrigeration. I, II. 3 hr. PR: M.E. 250.

360. Engineering Similitude Studies. I, II. 3 hr. PR: Consent.

397. Research. I, II. 1-6 hr.

THEORETICAL AND APPLIED MECHANICS

Undergraduate Division

101. Statics. I, II, S. 3 hr. PR: Math. 108 and Physics 111 (or reg. in Math. 108).

102. Mechanics of Materials. I, II, S. 3 hr. PR: T.A.M. 101 and Math. 108.

103. Mechanics of Materials. I, II, S. 3 hr. PR: T.A.M. 102 and Math. 108.

104. Dynamics. I, II, S. 3 hr. PR: T.A.M. 101 and Math. 108.

200. Advanced Mechanics of Materials I, II. 3 hr. PR: T.A.M. 103.

201. Advanced Dynamics. I, II. 3 hr. PR: T.A.M. 104.

202. Advanced Materials Laboratory. I, II. 2-4 hr. PR: T.A.M. 103.

203. Experimental Stress Analysis. I, II. 3 hr. PR: T.A.M. 103 and T.A.M. 104.

280. Special Problems in Mechanics. I, II, S. 1-3 hr. PR: T.A.M. 103 and consent.

Graduate Division

310. Advanced Mechanics of Materials. I, II. 3 hr. PR: T.A.M. 200.

312. Inelastic Behavior of Engineering Materials. I, II. 3 hr. PR: T.A.M. 200.

320. Theory of Elasticity. I, II. 3 hr. PR: Math. 240 or 253, T.A.M. 200, T.A.M. 203.

330. Instrumentation in Engineering. I, II. 3 hr. PR: T.A.M. 104 or equivalent.

340. Photoelasticity. I, II. 3 hr. PR: T.A.M. 200, T.A.M. 203.

380. Advanced Independent Study. I, II, S. 1-3 hr. PR: T.A.M. 200, Math. 253 or Math. 254, T.A.M. 203.

397. Research. I, II, S. 1-6 hr.

The School of Journalism

1. *Introduction to Mass Communications. I, II, S. 2 hr.

2. *Lectures in Journalism. II. 0 hr.

18. *News Writing. I. 3 hr. PR: English 1 and 2 with an average of 2.5 or higher for the two courses, or consent.

19. Copy Editing and Makeup. II. 3 hr. PR: Journ. 18.

101. *Interpreting Current Events. I, II. 1 hr. PR: Sophomore standing.

108. *The Community Newspaper. I. 2 hr.

109. Applied Newspaper Management. II. 2 hr. PR: Journ. 108 or consent.

110. *Typography and Printing Processes. I, II, S. 2 hr.

113. *Principles of Advertising. I, II, S. 3 hr.

114. Newspaper Advertising Selling. I, II. 2 hr. PR: Journ. 113.

115. Advertising Copy and Layout. II. 2 hr. PR: Journ. 113 or Marketing 120.

116. *Radio and Television Advertising. I. 2 hr.

118. Reporting. I, II. 3 hr. PR: A grade of "C" or higher in Journ. 18.

119. Advanced Editing and Makeup. I, II. 3 hr. PR: A grade of "C" or higher in Journ. 19.

120. *News Photography. I, II. 2 hr.

122. Radio and Television Reporting. I. 2 hr. PR: Journ. 18 or consent.

123. Radio and Television Reporting. II. 2 hr. PR: Journ. 122 or comparable experience, and consent.

124. Television News Photography. I. 2 hr. PR: Journ. 120 or consent.

125. Television Film Reporting and Editing. II. 2 hr. PR: Journ. 124.

*Open to all University students.

Martin Hall is the "home" of the School of Journalism. Built in 1870, it is the oldest building on the campus. The School of Journalism moved into Martin Hall in 1953 after having been housed in Woodburn Hall for 32 years. The School of Journalism occupies 29 rooms in historic Martin Hall.

128. Reporting of Public Affairs. II. 2 hr. PR: Journ. 18 or comparable experience, and consent.

170. *Mechanical Composition. I, II. 1 hr.

201. *Interpreting Current Events. S. 1 hr.

212. *Public Relations. I, II, S. 3 hr.

213. *Industrial Journalism. II. 2 hr.

215. *High School Journalism. II, S. 2 hr.

220. *Newspaper and Magazine Article Writing. II. 2 hr.

227. *History of Journalism. I, S. 3 hr. PR: Hist. 52, 53.

230. *Editorial and Law of the Press. I. 2 hr.

235. *Editorial and Law of the Press. II. 2 hr.

239. Seminar in Advertising-Management Problems. II. 2 hr. PR: Senior standing and major or minor in advertising.

241. Journalism Problems. I, II, S. 1-3 hr.

242. Advanced Journalism Problems. I, II, S. 1-3 hr.

243. *International Communications. I. 3 hr.

301. Research Methods and Literature. I, S. 3 hr.

302. Seminar in Communications Theory. II, S. 3 hr.

312. Seminar in Institutional Relations. II. 3 hr.

315. Seminar in Journalism Education. S. 3 hr.

322. Seminar in Radio-Television Problems. S. 3 hr.

339. Seminar in Advanced Advertising-Management Problems. II. 3 hr.

343. Seminar in the Foreign Press. II. 3 hr.

380. Thesis. I, II, S. 2-6 hr.

The College of Law

First Year

100. Accounting for Lawyers. II. 2 hr.
102. Judicial Remedies. I. 2 hr.
104. Contracts. I. 6 hr.
106. Criminal Law and Procedure. I. 4 hr.
110. Legal Research and Writing. II. 2 hr.
112-113. Property I. I and II. 6 hr.
114. Torts. II. 5 hr.

Second Year

200. Pleading and Joinder. II. 4 hr.
202. Constitutional Law. I. 3 hr.
204. Equity. I. 4 hr.
206 Federal Courts. II. 3 hr.
208. Income Taxation. I. 4 hr.
210. Moot Court. I. 2 hr.
212. Property II. I and II. 5 hr.
214. Trusts. II. 4 hr.

Third Year

300. Conflict of Laws. II. 4 hr.
302. Corporations. I. 4 hr.
306. Estate and Gift Taxation. I. 2 hr.
308. Evidence. I. 4 hr.
310. Legal Ethics. I. 1 hr.
311. Office Practice. II. 1 hr.
312. Practice and Procedure. I. 4 hr.
314. Practice Court. II. 2 hr.
316. Research Seminar. II. 2 hr. (Estate Planning, Evidence, Land Transactions, or Procedure).

Second or Third Year

250. Administrative Law. II. 3 hr.
256. Creditor's Rights. I. 3 hr.
258. Damages. I. 2 hr.
260. Domestic Relations. II. 2 hr.
262. Insurance. II. 2 hr.
264. Labor Law. II. 3 hr.
266. Legislation. I. 2 hr.
270. Negotiable Instruments. I. 3 hr.

Clinical laboratories play an important part in medical training.

The School of Medicine*

Medicine

221. Physical Diagnosis. I. 2 hr.
222. Physical Diagnosis. II. 2 hr.
223. History of Medicine. I. 1 hr.
224. Clinical Laboratory Methods. II. 2 hr.
231. Clinical Clerkship in Medicine. Yr. 10 hr.
241. Clinical Medicine and Medical Specialties. Yr. 5 hr.

Obstetrics and Gynecology

231. Clinical Clerkship in Obetetrics and Gynecology. Yr. 5 hr.

Pediatrics

231. Clinical Clerkship in Pediatrics. Yr. 5 hr.

Psychiatry

241. Clinical Clerkship in Psychiatry. Yr. 10 hr.

Health and Preventive Medicine

222. Health and Preventive Medicine. II. 2 hr. PR: Consent.
241. Health Practices. Yr. 3 hr.

*For courses of instruction in the Basic Sciences see page 144.

Surgery

231. Clinical Clerkship in Surgery. Yr. 10 hr.

241. Clinical Surgery and Surgical Specialties. Yr. 5 hr.

Conjoined Courses

211. Correlation Clinic. I. 1 hr.

212. Correlation Clinic. II. 1 hr.

221. Introductory Clinical Sciences. I. 2 hr.

222. Introductory Clinical Sciences. II. 3 hr.

231. Clinical Lectures and Demonstrations. Yr. 10 hr.

241. The Clinical Specialties. Yr. 7 hr.

Medical Technology*

100. Orientation. SI. 2 hr.

101. Clinical Microbiology. II. 4 hr.

102. Blood Bank Procedures. I. 2 hr.

103. Metabolimetry and Electrocardiography. SII. 2 hr.

104. Clinical Chemistry. II. 4 hr.

105. Laboratory Management and Records. II. 2 hr.

106. Clinical Microscopy. I. 4 hr.

107. Histologic Technic. I. 3 hr.

108. Clinical Hematology. I. 2 hr.

109. Advanced Hematology. II. 4 hr.

110. Seminar. I, II. 4 hr. (2 hr. ea. semester).

*For courses of instruction in the Basic Sciences see page 144.

The Division of Military Science and Air Science

Military Science: Professor Roberts; Associate Professors Curran, Hartwig, Houy, Means, Neidermeyer, Prillaman, Reed, and Santry; Instructors Ferrell, Haley, Triona, and Weyrick.

Air Science: Professor Milne; Associate Professors Bennett, Cooper, Garvin, Pierce, Rollings, and Wilson.

BASIC COURSE—FIRST YEAR, 2 hr. (Army)

Military Science 1. Leadership Laboratory; Organization of the Army and ROTC; Individual Weapons and Marksmanship; 3 hr. per week.

Military Science 2. Leadership Laboratory; U. S. Army and National Security; Academic Subject; 3 hr. per week.

BASIC COURSE—FIRST YEAR, 2 hr. (Air Force)

AIR SCIENCE 1. Elements and Potentials of Air Power; Air Vehicles and Principles of Flight I; Professional Opportunities in the United States Air Force; Leadership Laboratory. 3 hr. per week.

AIR SCIENCE 2. Air Vehicles and Principles of Flight II; Military Instruments of National Security; Professional Opportunities in the Air Force; Leadership Laboratory. 3 hr. per week.

BASIC COURSE—SECOND YEAR, 2 hr. (Army)

MILITARY SCIENCE 3. Leadership Laboratory; American Military History. 3 hr. per week.

MILITARY SCIENCE 4. Leadership Laboratory; Basic Tactics, Map and Aerial Photograph Reading. 3 hr. per week.

BASIC COURSE—SECOND YEAR, 2 hr. (Air Force)

AIR SCIENCE 3. The Evolution of Aerial Warfare; Elements of Aerial Warfare I; Leadership Laboratory. 3 hr. per week.

AIR SCIENCE 4. Elements of Aerial Warfare II; Employment of Air Forces; Space Operations; Leadership Laboratory. 3 hr. per week.

ADVANCED COURSE—THIRD YEAR, 3 hr. (Army)

MILITARY SCIENCE 105. Leadership Laboratory; Leadership; Military Teaching Methods; Branches of the Army. 5 hr. per week.

MILITARY SCIENCE 106. Leadership Laboratory; Small Unit Tactics. 5 hr. per week.

ADVANCED COURSE—THIRD YEAR, 3 hr. (Air Force)

AIR SCIENCE 105. PR: Air Science 4 or equivalent.* Communications and Problem Solving; Social and Psychological Determinants of Air Force Leadership. Leadership Laboratory. 5 hr. per week.

AIR SCIENCE 106. PR: Air Science 105. Staff Action and Decision Making; Military Justice and Problems in Air Force Leadership; Leadership Laboratory; Communications. 5 hr. per week.

ADVANCED COURSE—FOURTH YEAR, 3 hr. (Army)

MILITARY SCIENCE 107. Leadership Laboratory; Army Administration; Command and Staff; Estimate of the Situation and Combat Orders; 5 hr. per week.

MILITARY SCIENCE 108. Leadership Laboratory; Logistics, Supply Management; Military Law; Role of the United States in World Affairs; Service Orientation; 5 hr. week.

ADVANCED COURSE—FOURTH YEAR, 3 hr. (Air Force)

AIR SCIENCE 107. PR: Air Science 106. Weather and Navigation; Political Science Elective; Leadership Laboratory. 5 hr. per week.

AIR SCIENCE 108. PR: Air Science 107. The Air Force Officer; Political Science Elective; Leadership Laboratory. 5 hr. per week.

*Equivalent credit as granted by the Registrar of the University and the Professor of Air Science. Students who have had previous active service and desire to enter this course must have their requirements and status determined by the Professor of Air Science at the time of initial entry into the University. See Page 72 of this **Catalog** for general regulations of the Division of Military Science and Air Science.

The School of Mines

Undergraduate Division

1. Freshman Orientation. I. (Credit).

102. Mine Surveying. SI. 6 hr. PR: Math. 5 and M.E. 26.

106. Mineralogy. II. 2 hr. PR: Chem. 163.

107. Mining Methods. I. 3 hr. PR: Physics 112, Geol. 1.

111. Introductory Mining. I, II. 2 hr. PR: Chem. 10, Physics 112.

201. Oil Field Development. I. 3 hr. PR: Geol. 3, Physics 112, and Math. 4.

203. Petroleum Property Valuation and Management. II. 2 hr. PR: E.M. 204.

204. Oil and Gas Production. II. 3 hr. PR: E.M. 201.

205. Gas Measurement Engineering. II. 2 hr. PR: E.M. 201, C.E. 115.

207. Introductory Seismology. I, II. 1 hr. PR: Physics 112.

208. Geological Surveying. II. 1 hr. PR: E.M. 102.

209. Mineral Preparation. I, II. 2 hr. PR: E.M. 212 and T.A.M. 104, or consent.

210. Mineral Preparation Laboratory. I, II. 1 hr. PR or concurrent: E.M. 209.

212. Advanced Mining. II. 3 hr. PR: E.M. 111 and E.E. 105.

213. Mine Ventilation. I. 3 hr. PR: E.M. 107, T.A.M. 104.

214. Mine Valuation, Cost Control, and Economics. I, II. 3 hr. PR: Econ. 2 and E.M. 107 or consent.

215. Industrial Safety Engineering. I, II. 2 hr. PR: Junior standing or consent.

216. Petroleum Engineering Design. I. 2 hr. PR: E.M. 204.

217. Coal Preparation. I, II. 3 hr. PR: E.M. 212, T.A.M. 104. PR or Conc: C.E. 115.

218. Advanced Mineral Preparation. I, II. 3 hr. PR: E.M. 106, 217.

219. Advanced Mining Methods for Vein Deposits. I, II. 3 hr. PR: E.M. 107, T.A.M. 104.

220. Mine Design. I, II. 2 hr. PR: E.M. 212 and registration in C.E. 170.

221. Mine Design. I, II. 2 hr. PR: E.M. 217, 220.

222. Mine Equipment and Machinery. I, II. 3 hr. PR: E.E. 105 and E.M. 212.

223. Mine Management. II. 3 hr. PR: E.M. 212 and senior standing.

224. Mining Engineering Problems. I, II. 1-6 hr. PR: Senior or graduate standing.

227. Mine Power Applications. I. 2 hr. PR: E.M. 222 or consent.

228. Mine Equipment and Machinery Controls. II. 3 hr. PR: E.M. 227 or consent.

229. Advanced Mining Equipment Applications. I. 3 hr. PR: E.M. 222.

230. Elements of Geophysical Prospecting. I. 3 hr. PR: Geol. 151, Physics 112.

231. Geophysical Prospecting Laboratory. I. 1 hr. PR or concurrent: E.M. 230.

232. Petroleum Reservoir Engineering. I. 3 hr. PR: E.M. 204, 236.

233. Theory and Practice of Coal Preparation. SI. 4 hr. PR: Physics 112, Math. 108, or consent.

234. Applied Geophysics. II. 3 hr. PR: Physics 112 and Geol. 151, or consent.

235. Fundamentals of Well Logging. II. 3 hr. PR: Math. 108, E.M. 204, or consent.

Facilities of the School of Mines include laboratories for studying mining and mine ventilation, coal preparation, fuels, and oil and gas. A recording earth-movement seismograph provides data for the study of geophysics. This student is examining a precision model of a modern continuous miner and is studying the design features of the machine.

236. Hydrocarbon Phase Behavior. I. 3 hr. PR: Physics 2 or 112 and E.M. 204 or concurrent registration in E.M. 204.

237. Composition and Properties of Oil Well Drilling Fluids. I. 3 hr. PR: E.M. 204 and Chem. 163.

238. Oil and Gas Law. II. 2 hr. PR: E.M. 204.

239. Advanced Petroleum Reservoir Engineering. II. 3 hr. PR: E.M. 232.

Graduate Division

301, 302. Advanced Mine Design. I, II. Credit arranged.

351. Coal Mining. SI. 3 hr. PR: 10 hr. of chemistry, 8 hr. of physics, and accompanied or preceded by general geology.

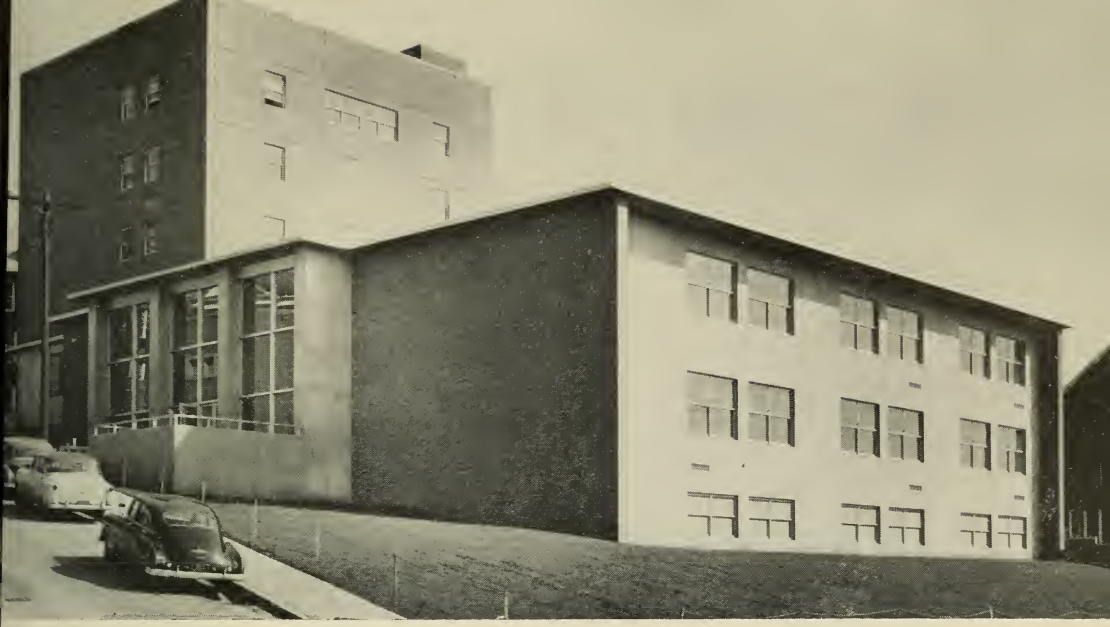
395, 396. Graduate Seminar in Coal Mine Operation and Administration. I, II. 3-6 hr. PR: B.S. Degree and consent.

397. Research. I, II. Credit arranged.

The School of Music

Undergraduate Division

0. Theory. I. 0 hr.
1. Theory. I. 4 hr.
2. Theory. II. 4 hr. PR: Music 1.
3. Theory. I. 4 hr. PR: Music 1, 2.
4. Theory. II. 4 hr. PR: Music 1, 2, 3.
5. Remedial Theory. I, II. No credit.
10. Music in Human Relations. I, II. 2 hr.
11. Music as an Art and Science. I, II. 2 hr. PR: Music 10 or its equivalent.
12. Music Materials and Procedures. I, II. 2 hr. PR: Music 11 or its equivalent.
20. Introduction to Opera Theatre. I, II. 2 hr. Maximum credit 8 hr. PR: Consent.
77. Enjoyment of Music. I. 1 hr.
78. Enjoyment of Music. II. 1 hr.
107. Analysis of Musical Form. I, II. 3 hr. PR: Music 4.
109. Introductory Counterpoint. I. 2 hr.
110. Counterpoint. II. 2 hr. PR: Music 109.
113. Introductory Composition. I. 2 hr. PR: Music 4.
114. Composition. II. 2 hr. PR: Music 113.
115. Composition. I. 2 hr. PR: Music 114.
116. Composition. II. 2 hr. PR: Music 115.
117. Instrumentation. I. 2 hr. PR: Music 2.
118. Orchestration. II. 2 hr. PR: Music 117.
119. Band Arranging. II. 2 hr. PR: Music 117.
120. Choral Arranging. II. 2 hr. PR: Music 1, 2.
140. History of Music. I. 3 hr.
141. History of Music. II. 3 hr. PR: Music 140.
150. Applied Music. I, II. 1-4 hr.
153. Accompanying. I. 1 hr.
155. Chamber Music. I. 0 or 1 hr.
181. Organization and Administration of Instrumental Music. II. 2 hr.
182. Organization and Administration of Choral Music. I. 2 hr.
183. Conducting. I. 3 hr.
185. Music Education. II. 3 hr.
186. Composition. I. 2 hr. PR: Music 116.
187. Composition. II. 2 hr. PR: Music 186.
198. Original Major Work in Composition. I, II. 2 hr.
199. Graduation Recital. I, II. 0 or 2 hr.
200. Band, Orchestra, Choral, Opera Theatre and Music Education Clinics. 2 hr.



The School of Music is housed in a magnificent air-conditioned building. The building is completely modern in every respect, with special attention having been given to acoustical problems.

201. Music in the Elementary School. I, II. 2 hr. PR: Music 10, 11, 12, or consent.
210. Opera Theatre. I, II. 2 hr. Maximum credit 8 hr. PR: Music 20 or consent.
231. Principles of Vocal Production. I. 2 hr.
232. Church Music. I. 3 hr. PR: Music 140-141 or equivalent.
233. Liturgies. II. 3 hr. PR: Music 232.
250. Advanced Harmony. II. 3 hr. PR: Music 4 or consent.
280. Survey of Operatic Music. II. 2 hr. PR: Music 107.
281. Survey of Symphonic Music I. 2 hr. PR: Music 107.
282. Studies in Contemporary Music. II. 2 hr.
283. Medieval and Renaissance Music. I. 2 hr. PR: Music 140-141, or equivalent.

BEGINNING APPLIED MUSIC CLASSES*

79. Oboe. I, II. 1 hr.
80. Bassoon. I, II. 1 hr.
89. Cello. I, II. 1 hr.
90. String Bass. I, II. 1 hr.
188. French Horn. I, II, 1 hr.
189. Flute. I, II. 1 hr.
191. Trombone. I, II. 1 hr.
192. Trumpet. I, II. 1 hr.
193. Clarinet. I, II. 1 hr.
194. Violin and Viola. I. 1 hr.
195. Violin and Viola. II. 1 hr.
197. Percussion. I, II. 1 hr.

*Students may use their own instruments, or instruments may be rented for a fee of $2.50 per semester.

ORGANIZATIONS

100. Band. 0 to 1 hr.

102. University Choral Union. 0 or 1 hr.

103. University Community Symphony Orchestra. 0 or 1 hr.

105. University Choir. 0 to 1 hr.

Graduate Division

APPLIED MUSIC

300. Applied Music. I, II. 1-4 hr.

CONDUCTING

310. Conducting. I. 3 hr. PR: Music 183 or equivalent.

311. Conducting. II. 3 hr. PR: Music 310.

LITERATURE

280. Survey of Operatic Music. II. 2 hr. PR: Music 107.

281. Survey of Symphonic Music. I, II. 2 hr. PR: Music 107.

282. Studies in Contemporary Music. I, II. 2 hr. PR: Consent.

283. Medieval and Reniassance Music. I. 2 hr. PR: Music 140-141, or equivalent

320. Music Literature. I, II. 2 hr. PR: Consent.

330. Introduction to Research. I. 3 hr. PR: Music 140-141, or equivalent.

331. Seminar in Musicology. II. 3 hr. PR: Music 330.

CHURCH MUSIC

231. Principles of Vocal Production. I. 2 hr.

232. Church Music. I. 3 hr. PR: Music 140-141, or equivalent.

233. Liturgies. II. 3 hr. PR: Music 232.

334. Choir Seminar. I. 2 hr. PR: Music 183.

335. Choir Seminar. II. 2 hr. PR: Music 334.

MUSIC EDUCATION

200. Band, Choral, Opera Theatre, and Music Education Clinics. 2 hr.

201. Music in the Elementary School. I, II. 2 hr. PR: Music 10, 11, 12, or consent.

340. Choral Techniques. I. 3 hr. PR: Music 182 or equivalent.

342. Instrumental Techniques. II. 3 hr. PR: Music 181 or equivalent.

344. Music Education. I. 3 hr. PR: Music 185 or equivalent.

345. The Supervision of Music. II. 2 hr. PR: Music 185.

346. Introduction to Research in Music Education. II. 3 hr. PR: Music 344.

347. Seminar in Music Education. I. 4 hr. PR: Music 344.

348. Seminar in Music Education. II. 4 hr. PR: Music 347.

349. Psychology of Music. I. 3 hr. PR: Graduate status.

350. Psychology of Music. II. 3 hr. PR: Music 349.

OPERA

210. Opera Theatre. I, II. 2 hr. Maximum credit 8 hr. PR: Music 20 or consent.

THEORY AND COMPOSITION

360. Composition. I, II. 3 hr. PR: Consent.
361. Composition. I, II. 3 hr. PR: Music 360.
362. Composition. I, II. 3 hr. PR: Music 361.
363. Composition. I, II. 3 hr. PR: Music 362.
365. Counterpoint. I. 2 hr. PR: Music 110 or equivalent.
366. Counterpoint. II. 2 hr. PR: Music 365.
367. Style Survey. I. 2 hr. PR: Music 140, 141 or equivalent.
368. Style Survey. II. 2 hr. PR: Music 367.
369. Research. I, II. 2 hr. PR: Music 232, 330, 344, or 365, and consent.
370. Orchestration. I. 3 hr. PR: Music 118 or equivalent.
371. Orchestration. II. 3 hr. PR: Music 370.
372. Band Arranging. II. 3 hr. PR: Music 119 or equivalent.
375. Pedagogy of Theory. I. 3 hr. PR: A strong undergraduate background in theory.
376. Pedagogy of Theory. II. 3 hr. PR: Music 375.

THESIS OR RECITAL

396. Two Lecture Recitals. 4 hr. (For History of Music Majors only.)
397. Recital. 2 hr.
398. Recital. 4 hr.
399. Thesis. 4 hr.

EXTENSION DIVISION (Non-music majors only)

288. Music Education. I. 3 hr. PR: Consent.
289. Music Education. II. 3 hr. PR: Music 288.
290. Choral Conducting and Procedures. I. 3 hr. PR: Consent.
291. Choral Conducting and Procedures. II. 3 hr. PR: Music 290 or consent.
292. History and Appreciation of Music. I. 3 hr. PR: Consent.
293. History and Appreciation of Music. II. 3 hr. PR: Music 292 or consent.
294. Class Piano. I. 2 hr. PR: Consent.
295. Class Piano. II. 2 hr. PR: 294 or consent.

The School of Nursing

NURSING*

1. Orientation to Nursing. I. 2 hr.
2. The Nurse in Western Culture. II. 2 hr.

*Subsequent nursing courses will be developed by the School of Nursing.

The School of Pharmacy*

FIVE-YEAR PROGRAM

Pharmacy

101. Principles of Pharmacy. I. 3 hr.

102. Pharmaceutical Calculations. I. 3 hr.

103. History of Pharmacy. I. 2 hr.

104. General Pharmacy 1, Lectures. II. 3 hr. PR: Pharm. 101, 102.

105. General Pharmacy 1, Laboratory. II. 2 hr.

106. General Pharmacy 2. I. 3 hr. PR: Pharm. 104, 105.

107. Introductory Pharmacy Dispensing. I. 2 hr. PR: Pharm. 104, 105.

108. Public Health and Hygiene. II. 2 hr.

109. Intermediate Pharmacy Dispensing. II. 3 hr. PR: Pharm. 106, 107.

116. Pharmaceutical Investigation. I or II. 1-3 hr.

117. Dispensing Pharmacy. I or II. 1-3 hr.

201. Dispensing Pharmacy. I. 3 hr. PR: Pharm. 109.

203. Hospital Pharmacy. I, II. 2 hr.

204. Dispensing Pharmacy Lectures. II. 2 hr. PR: Pharm. 201.

205. Dispensing Pharmacy Laboratory. II. 2 hr. PR: Pharm. 201.

206. Medical Emergencies. II. 2 hr.

207. Seminar in Pharmaceutical Sciences. I, II. 1 hr. per semester. PR: Consent.

Pharmacy Administration

121. Pharmaceutical Law. I. 3 hr.

122. Pharmacy Accounting. I. 3 hr.

123. Marketing of Drug Products. II. 3 hr. PR: Pharm. 121, 122.

221. Pharmacy Management. I. 3 hr.

222. Pharmacy Management. II. 3 hr.

Pharmacognosy

141. Pharmacognosy. I. 3 hr. PR: Chem. 238, Microbiol. 220.

142. Pharmacognosy. II. 3 hr. PR: Pharm. 141.

143. Pharmacognosy Laboratory. II. 2 hr. PR: Pharm. 141.

Pharmaceutical Chemistry

271. Inorganic Pharmaceutical Chemistry. I. 3 hr. PR: Pharm. 101.

272. Organic Pharmaceutical Chemistry. I. 3 hr. PR: Biochem. 139, Pharm. 142.

273. Organic Pharmaceutical Chemistry. II. 3 hr. PR: Pharm. 272.

274. Assay and Pharmaceutical Testing. II. 3 hr. PR: Pharm. 201, 272.

*For courses of instruction in the Basic Sciences see page 144.

Students in the prescription laboratory receive simulated doctor's prescriptions by telephone and prepare them for imaginary customers. The faculty member grades the final product for compounding technique, accuracy, and pricing.

FOUR-YEAR PROGRAM*

Pharmacy

103. Public Health and Hygiene. I. 2 hr.
105. History of Pharmacy. I. 2 hr.
108. Dispensing Pharmacy. I. 3 hr.
109. Dispensing Pharmacy. II. 2 hr.
113. Pharmacy and Chemistry of Medicinal Products. II. 5 hr.
116. Pharmaceutical Investigation. I or II. 1-3 hr.
117. Dispensing Pharmacy. I or II. 1-3 hr.
118. Hospital Pharmacy Techniques. I or II. 1 hr.
203. Biological and Chemical Therapy. II. 3 hr.

Pharmacognosy

112. Microscopical Pharmacognosy. II. 2 hr.

Pharmacy Administration

102. Pharmacy Accounting. I. 2 hr.
111. Pharmaceutical Law. II. 3 hr.
114. Pharmacy Management. II. 3 hr.

*Discontinued September 1959.

Pharmaceutical Chemistry

106. Inorganic Pharmaceutical Chemistry. I. 3 hr.

107. Organic Pharmaceutical Chemistry. II. 3 hr.

110. Assay and Pharmaceutical Testing. I. 3 hr.

The School of Physical and Health Education, Recreation, and Safety

GENERAL PROGRAM COURSES FOR MEN

1. General Program for Men. I. 1 hr.
2. General Program for Men. II. 1 hr.

GENERAL PROGRAM COURSES FOR WOMEN

3. Orientation in Physical Education. I. 1 hr.
4. Golf and Bowling. I, II. 1 hr.
5. Ballroom Dance. I, II. 1 hr. For men and women students.
6. Stunts, Tumbling, and Trampoline. I, II. 1 hr.
7. Archery. I, II. 1 hr.
8. Recreational Sports. I, II. 1 hr.
9. Team Sports. I. 1 hr.
10. Team Sports. II. 1 hr.
11. Folk Dancing. I, II. 1 hr.
12. Square Dance. II. 1 hr.
13. Tennis and Bowling. I, II. 1 hr.
14. Elementary Swimming and Diving. I, II. 1 hr.
15. Intermediate Swimming and Diving. I, II. 1 hr.
16. Advanced Swimming, Life Saving, and Water Safety. II. 1 hr.
17. Elementary Modern Dance. I, II. 1 hr.
18. Advanced Modern Dance. I, II. 1 hr. PR: Phys. Ed. 17. For men and women students.
19. Adapted Activities. I, II. 1 hr.
21. Physical Fitness. I, II. 1 hr.
25. Fencing. I, II. 1 hr.

101, 102. General Program for Junior and Senior Women. I, II. 1 hr.

HEALTH EDUCATION

2. Personal and Community Health. I, II. 2 hr.

101. The School Health Program. I, II, S. 2 hr. PR: Ed. 105.

201. Advanced School Health. I, S. 3 hr. PR: Health Ed. 101, 20 hr. of Education, or consent.

The Field House, located on the Main Campus near the Monongahela River, provides facilities for classes, intramural sports, and intercollegiate athletics.

205. Philosophy of Health Education. I, S. 3 hr. PR: Health Ed. 2 and 101, or equivalent.

301. Community Health. II. S. 3 hr. PR: Health Ed. 2 and 205, or equivalent.

376. Evaluation of Health Information. I, S. 3 hr. PR: Health Ed. 2 and 201, or 20 hr. of Education and consent.

394. Seminar in Health Education. I, II, S. 4 hr. PR: Health Ed. 205.

397. Individual Research Problems in Health Education. I, II, S. 1-4 hr. PR: Health Ed. 205 and HPERS 375 or 395, or Ed. 301.

398. Practicum in Health Education. I, II, S. 4 hr. PR: Health Ed. 394, and HPERS 396 and 397.

PHYSICAL EDUCATION

30. Beginning and Intermediate Swimming. I, II. 1 hr. (Men).

31. Team Sports. I. 1 hr. (Women).

32. Team Sports. II. 1 hr. PR: Phys. Ed. 31. (Women).

33. Swimming and Diving. I. 1 hr. PR: Phys. Ed. 14 or equivalent. (Women).

34. Tennis and Archery. I. 1 hr. (Women).

35. Modern Dance Technique. I. 1 hr. (Women).

36. Movement and its Rhythmic Structure. II. 2 hr. (Women). PR: Phys. Ed. 35. (Women).

37. Advanced Modern Dance. I, II. 1 hr. PR: Phys. Ed. 35 (Women).

38. Dance Composition. II. 2 hr. PR: Phys. Ed. 35, 36 (Women).

41. Physical Education for Elementary Teachers. I. 1 hr. (Women).

42. Physical Education for Elementary Teachers. II. 1 hr. (Women).

43. Physical Education for Elementary Teachers. I. S. 2 hr. PR: Phys. Ed. 1 and 2 or Phys. Ed. 41 and 42, or consent.

51. Fundamentals of Baseball and Gymnastics. I. 2 hr. (Men).

52. Advanced Swimming, Life Saving, and Water Safety. I, II. 1 hr. PR: Phys. Ed. 30 or equivalent. (Men).

53. Junior and Senior High School Activities and Games. I. 2 hr. (Men).

54. Individual and Dual Sports. II, S. 2 hr.

55. Fundamentals of Basketball and Wrestling. I. 2 hr. (Men).

56. Fundamentals of Track and Football. II. 2 hr. (Men).

61. Stunts, Tumbling, and Trampoline. II. 1 hr. (Women).

63. Hockey and Volleyball. I. 1 hr. (Women).

66. Graded Games and Lead-up Games. II. 1 hr.

68. Officiating Athletics. II. 1 hr. (Women).

71. Orientation in Physical Education. I. 2 hr.

121. Athletic Training and First Aid. I. 2 hr. (Men).

124. Instructorship in Swimming, Life Saving, and Water Safety. II. 1 hr. PR: Phys. Ed. 52 or equivalent.

125. Program Assisting. I. 1 hr. (Men).

126. Program Assisting. II. 1 hr. (Men).

130. Program Assisting. I. 1 hr. (Women).

131. Program Assisting. II. 1 hr. (Women).

132. Folk Dancing. II. 1 hr.

155. Theory of Coaching. I. 2 hr.

171. Basic Rhythms and Dance Accompaniment. II. 2 hr. PR: One semester of modern dance.

175. Anatomy and Kinesiology. I, II. 5 hr.

176. The Adapted Program in Physical Education. II. 2 hr. PR: Phys. Ed. 175

177. History and Principles of Physical Education. II. 3 hr.

180. The Physical Education Program in the Elementary School. II. 2 hr.

191. Introduction to Tests in Health and Physical Education. I. 2 hr.

206. Program in Individual Sports. S. 3 hr. PR: Phys. Ed. 51, 55, 56, 155 or equivalent.

207. Program in Team Sports. S. 3 hr. PR: Same as Phys. Ed. 206.

209. Rhythms and Dance. II, S. 3 hr. PR: Consent

210. Program in Sports. S. 3 hr. PR: Phys. Ed. 31, 32 or equivalent. (Women).

212. Extracurricular Physical Education Activities for Secondary School Girls. I, S. 3 hr. PR: Consent.

219. Modern Dance Techniques and Composition. I, S. 3 hr. PR: Phys. Ed. 35, 36 or consent.

225. Officiating Football and Basketball. I, S. 2 hr. PR: Phys. Ed. 155 or equivalent.

276. Residence in Corrective Therapy. S. 6 hr. PR: Phys. Ed. 175, 176 and selected psychology courses.

278. Administration of Physical Education. II, S. 3 hr. PR: Phys. Ed. 71, 177.

279. Administration of Athletics. S. 3 hr. PR: Experience in coaching and administration.

292. Physical Education for Classroom Teachers in the Elementary School. I, S. 2 hr. PR: Teaching experience or consent. (Not open to major students).

293. Organization and Administration of Intramural Sports. I, S. 3 hr. PR: 4 hr. of physical education activity courses.

Recreation majors receive a broad background of training to become recreation specialists. Students in the professional Recreation field study theory and philosophy principles, administration, leadership, program and facility planning, dance, social recreation, etc. Students in this class are discussing a planned recreation area for a community.

294. Philosophy of Physical Education. I, II, S. 3 hr. PR: Phys. Ed. 177 and 278, or equivalent, and consent.

295. Principles and Practices of Adapted Physical Education. I, S. 2 hr. PR: Zool. 171, Phys. Ed. 175, or equivalent.

319. History and Philosophy of the Dance. II, S. 3 hr. PR: Phys. Ed. 219 or equivalent.

380. Curriculum Development in Physical Education. S. 3 hr. PR: Phys. Ed. 294. (Limited to Major students).

394. Seminar in Physical Education. I, II, S. 4 hr. PR: Phys. Ed. 294.

397. Individual Research Problems in Physical Education. I, II, S. 1-4 hr. PR: Phys. Ed. 294 and HPERS 375 or 395; or Ed. 301. (For advanced students.)

398. Practicum in Physical Education. I, II, S. 4 hr. PR: Phys. Ed. 394 and HPERS 396 and 397.

RECREATION

1. Introduction to Recreation. II. 3 hr .

4. Recreation and the School. I. 3 hr.

5. Introduction to Arts and Crafts in Recreation. I. 2 hr.

11. Nature Recreation and Camping. II. 3 hr.

12. Social Recreation. I. 3 hr.

102. Program Planning. II. 3 hr. PR: Rec. 1.

104. Functional Planning of Recreation Facilities. II. 3 hr.

107. Recreation Leadership and Group Work. I. 3 hr.

145. Field Work. 3 hr.

202. Philosophy of Recreation. II, S. 3 hr. PR: Major students in recreation, graduate standing in Education and Physical Education, or consent.

204. Recreation Hobbies. I, S. 2 hr. PR: Rec. 1 or equivalent.

206. Social Recreation for School-Age Groups. II, S. 3 hr. PR: 12 hr. in Education, or consent.

265. Leisure and Recreation. I, S. 3 hr. PR: Major in recreation or physical education or 14 hr. in Education.

271. Administration of Camps and Preparation of Camp Counselors. II, S. 3 hr. PR: Rec. 11 or equivalent, or consent.

282. Administration of Recreation. I, S. 3 hr. PR: Same as Rec. 202.

294. Recreation Leadership in Groups. II, S. 2 hr. PR: 5 hr. general and educational psychology, or at least 1 year of leadership experience with teen-age children, or consent.

295. Leadership in Nature Recreation. II, S. 2 hr. PR: 5 hr. in biology, botany, or zoology, or combination; Rec. 1, 3, or equivalent; and at least 1 year leadership experience with teen-age children.

296. American Folk Dance. I, S. 3 hr. PR: Phys Ed. 132 or equivalent, or consent.

305. Human Interest Areas in Recreation Planning. I, II, S. 3 hr. PR: Rec. 202 or 20 hr. in Education or equivalent.

306. Leadership in School-Age Recreation Programs. II, S. 2 hr. PR: Rec. 107 or 2 years' teaching experience.

307. Community Recreation. I, S. 3 hr. PR: Rec. 202 or consent.

394. Seminar in Recreation. I, II, S. 4 hr. PR: Rec. 202.

397. Individual Research Problems in Recreation. I, II, S. 1-4 hr. PR: Rec. 202, HPERS 375 or 395, or Ed. 301.

398. Practicum in Recreation. I, II, S. 4 hr. PR: Rec. 394, HPERS 396 and 397.

SAFETY EDUCATION

127. Accident Prevention and First Aid. I, S. 2 hr.

181. Principles of Safety Education. I. 2 hr.

182. Techniques and Procedures in Driver and Traffic Safety Education. II, S. 3 hr. PR: Safety Ed. 181 or equivalent, or 6 hr. of education and valid driver's license.

281. Programs in Safety Education. I, II, S. 3 hr. PR: Consent.

282. Problems in Driver and Traffic Safety Education. I, II, S. 3 hr. PR: Safety Ed. 182 or equivalent, or teaching experience in driver education.

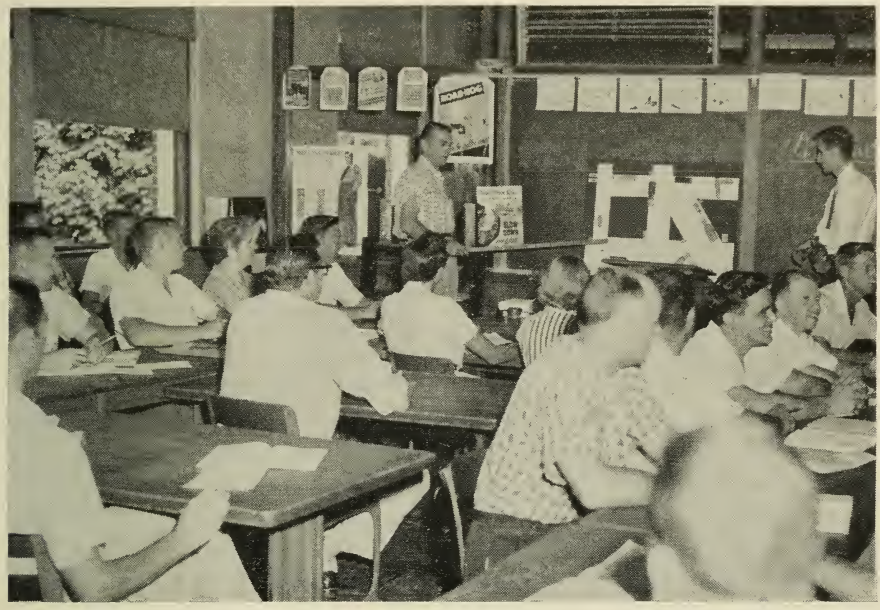
283. Philosophy of Safety Education. I, II, S. 3 hr. PR: Safety Ed. 181, 182, or 20 hr. of Education.

365. Organization, Administration, and Supervision of School Safety Education. I, II, S. 3 hr. PR: 14 hr. of Education or Safety Ed. 281 or 283, or equivalent, and consent.

394. Seminar in Safety Education. I, II, S. 4 hr. PR: Safety Ed. 283.

397. Individual Research Problems in Safety Education. I, II, S. 1-4 hr. PR: Safety Ed. 283 and HPERS 375 or 395, or Ed. 301.

398. Practicum in Safety Education. I, II, S. 4 hr. PR: Safety Ed. 394 and HPERS 396 and 397.



Problems of driver education are discussed in lectures. Students also have outdoor laboratory periods to study driving and traffic problems. Safety Education courses touch on accident prevention and first aid, and techniques and procedures in teaching driver and safety education.

HPERS

(Note: HPERS courses involve all areas—Health Education, Physical Education, Recreation, and Safety Education).

200. Workshop in Youth Fitness. S. 2 hr. PR: Consent.

201. Seminar of Foreign Programs in Health, Physical Education, Recreation, and Safety. S. 2-6 hr. PR: Consent.

301. The Role of the School Administrator in Conducting Programs in Health, Physical Education, Recreation, and Safety. S. 2 hr. PR: 20 hr. in Education.

350. Measurement in Health, Physical Education, Recreation, and Safety. II, S. 3 hr. PR: Health Ed. 205 or Phys. Ed. 294 or Rec. 202 or Safety Ed. 283.

355. Problems in Health, Physical Education, Recreation, and Safety. I, S. 3 hr. PR: Health Ed. 205 or Phys. Ed. 294 or Rec. 202 or Safety Ed. 283.

375. Introduction to Research in Health, Physical Education, Recreation, and Safety. II, S. 3 hr. PR: Health Ed. 205 or Phys. Ed. 294 or Rec. 202 or Safety Ed. 283.

395. Research Seminar in Health, Physical Education, Recreation, and Safety. II, S. 3 hr. PR: Health Ed. 394 or Phys. Ed. 394 or Rec. 394 or Safety Ed. 394, or Educ. 301.

396. Administrative Policies. I, II, S. 3 hr. PR: Health Ed. 394 or Phys. Ed. 394 or Rec. 394 or Safety Ed. 394, and Educ. 339 or Educ. 340.

397. Supervision. I, II, S. 3 hr. PR: HPERS 396 and Educ. 336 or Educ. 335 or Educ. 341.

399. Thesis. I, II, S. 6 hr. PR: HPERS 375 or 395.

THE STAFF

Part IV

The first date following titles indicates the most recent appointment. The second date indicates year of first appointment to a University position.

Staff members whose names are followed by an asterisk (*) are employed in cooperation with the United States Department of Agriculture.

MARGUERITE E. ABEL, B.A., B.S.L.S., *Reference Librarian* (part-time) *Medical Center Library* (1960).

RICHARD ATKINS ACKERMAN, B.S., M.S., *Assistant Professor of Dairy Science; Assistant Dairy Scientist, Agricultural Experiment Station* (1946), 1928.

JOHN DAVIS ADAMS, B.S., D.D.S., *Professor and Chairman of Crown and Bridge Dentistry* (1958).

ROBERT EVANS ADAMS, B.S., PH.D., *Associate Professor of Plant Pathology; Associate Plant Pathologist, Agricultural Experiment Station* (1960), 1953.

KENNETH LYLE ADRIANCE, MAJ., *Assistant Professor of Air Science* (1956). (Resigned August 15, 1959.)

WARREN KENDALL AGEE, B.A., M.A., PH.D., *Professor of Journalism; Dean, School of Journalism* (1958). (Resigned, October 31, 1960.)

HOWARD BUSHNELL ALLEN, B.S., M.S., PH.D., *Professor of Education* (1932), 1920.

PATSY RUTH ALLISON, B.S., M.S.ED., *Assistant Dean of Women* (1960).

CHARLES DEISON ALBRIGHT, B.S.M.E., *Instructor in Mechanics* (1957). (Resigned August 25, 1959.)

BETTY ENICKS ALITZER, B.S., M.S., *Instructor in Mathematics* (1959).

VANCE QUENTIN ALVIS, B.S., M.A., PH.D., *Professor of Economics* (1960), 1956.

NELLE PERREL AMMONS, A.B., M.A., PH.D., *Professor Emeritus of Biology* (1959), 1920.

HAROLD IRVIN AMORY, B.S., M.D., *Professor and Chairman of Radiology* (1960).

GERALD CLIFTON ANDERSON, B.S., M.S., PH.D., *Professor and Chairman of Animal and Veterinary Science; Animal Husbandman, Agricultural Experiment Station* (1956), 1950.

JAMES TREAT ANDERSON, B.S., M.S.M.E., D.I.C., PH.D., *Professor and Chairman of Mechanical Engineering* (1960).

SANDRA STOLLINGS ANDERSON, B.S.H.E., *Teacher* (part-time) *University High School* (1960). (Resigned May 31, 1960.)

WILLIAM EVAN ANDERSON, A.B., M.D., *Instructor in Medicine* (1960).

CHESTER ABBO ARENTS, M.E., M.S.M.E., B.S.M.E., *Dean, College of Engineering* (1955).

THOMAS ROREBT ARGIRO, B.S., M.D., *Instructor in Pathology* (1959). (Resigned July 1, 1960.)

WALTER WARDLAW ARMENTROUT, B.S.AGR., M.S., PH.D., *Professor of Agricultural Economics and Rural Sociology; Agricultural Economist, Agricultural Experiment Station* (1936), 1924.

WILLIAM H. ARMSTRONG, B.S., M.S., *Associate Professor of Industrial Engineering* (1957).

MARY ROGERS ASHBURN, A.B., M.A., *Instructor in English* (1959), 1946.

ALICE LEE ASHWORTH, A.B., *Assistant Dietitian, Arnold Residence Hall* (1960).

RICHARD ASPINALL, D.B., PH.D., *Director* (Retired) *of Student Affairs and University Extension* (1948), 1930.

PAUL ALEXANDER ATKINS, B.S.J., M.A., *Assistant Professor of Journalism; Faculty Adviser, Daily Athenaeum* (1956), 1953.

JO MATHER AULL, *Instructor* (part-time) *in Art* (1945).

ANDREW KOLB AULT, B.S., M.ED., *Instructor in Education; Teacher, University High School* (1952).

BIPIN CHANDRA AWASTHI, M.S., *Instructor in Mathematics* (1958). (Resigned May 30, 1959.)

GLADYS RABER AYERSMAN, B.S.H.E., M.S., *Assistant Professor of Home Economics* (1954), 1943.

NELSON HELENBERT BABER, B.S.H.E., *Dietitian, Arnold Hall* (1957).

CHARLES HENRY BAER, B.S., M.S., *Instructor in Biology* (1948). (On leave of absence 1960-61.)

Wesley Marvin Bagby. A.B., M.A., Ph.D., *Assistant Professor of History* (1957), 1956.
Benjamin Hasting Bailey, A.B., M.Ed., Ed.D., *Assistant Professor of Education* (1959).
Louis Reed Baker, A.B., M.D., *Instructor in Anesthesiology* (1960).
Wilfred Harmon Baker, B.S.C.E., M.S.C.E., *Professor of Civil Engineering* (1955), 1941.
Robert Dodge Baldwin, A.B., A.M., Ph.D., *Professor of Educational Administration; Coordinator of Field Services, College of Education* (1933), 1931.
Edwin Clyde Barbe, B.S.E.E., M.S.E.E., *Assistant Professor of Electrical Engineering* (1959), 1956.
Richard Hall Barnard, B.S.Ch.E., M.S.Ch.E., *Instructor* (part-time) *in Chemical Engineering* (1960), 1957. (Resigned June 30, 1960.)
Alice Elizabeth Barnett, B.S., M.S., *Instructor in Biology* (1960), 1959.
Horace Leslie Barnett, A.B., M.S., Ph.D., *Professor of Mycology; Chairman of Plant Pathology, Bacteriology and Entomology; Mycologist, Agricultural Experiment Station* (1960), 1945.
W. Quentin Barnette, B.S., M.A., *Assistant Professor of Physical Education; Freshman Basketball Coach* (1958), 1950.
William Derrick Barns, A.B., M.A., Ph.D., *Associate Professor of History* (1954), 1940.
Donald Stanford Barnhart, A.B., M.A., Ph.D., *Associate Professor of History* (1956). (Resigned May 31, 1959.)
Edgar Overton Barrett, III, A.B., *Publicity Director, Intercollegiate Athletics* (1956), 1951.
Karl Melvin Barth, B.S., M.S., *Assistant in Agricultural Biochemistry, Agricultural Experiment Station* (1958).
Elizabeth Ann Bartholomew, A.B., M.S., *Herbarium Assistant* (1941), 1938.
Mildred Mitchell Bateman, B.S., M.D., *Lecturer* (part-time) *in Social Work* (1957).
Alice Lee Googe Bauer, A.B., B.S.L.S., *Chief Technicial Processes Librarian* (1954).
Newton Moore Baughman, B.S., M.S., Ph.D., *Professor of Agronomy; Agronomist, Agricultural Experiment Station* (1960), 1949.
Nelson Robert Bauld, Jr., B.S.M.E., *Instructor in Mechanics* (1958). (Resigned May 31, 1960.)
Mary Catherine Bayles, A.B., A.M., *Assistant Registrar* (1946), 1924.
Michel Joseph Beauchemin, Ed.B., M.A., *Instructor in Romance Languages* (1956).
John Francis Lockett Bell, B.S.F., *Associate Forester* (part-time), *Agricultural Experiment Station* (1960), 1953.
Patricia Ann Bell, R.N., *Nurse, Infirmary* (1958). (Resigned March 28, 1959.)
Waldo E. Bell,* B.S.Agr.Eng., *Extension Agricultural Engineer, Agricultural Extension Service* (1945).
Boris Constant Belpuliti, B.S.P.E., M.S.P.E., *Director of Mountainlair* (1954), 1953. (Resigned June 30, 1959.)
Glenn Delmar Bengtson, B.S., *Assistant Agricultural Experiment Station Editor* (1953).
Donald William Bennett, Capt., B.S.M.E., *Assistant Professor of Air Science* (1958).
Herald Durward Bennett, Ph.D., *Associate Professor of Biology* (1955), 1948.
Jonathan McCauley Bennett, *Chief Flight Instructor, Aero-Space Engineering* (1951).
Arnold Benson, B.A., M.A., *Instructor in Biology* (1960), 1959.
Dorothy Jean Benson, B.S.H.E., M.S.H.E., *Dietitian, Men's Dining Hall* (1953).
Stanley I. Berger, B.A., M.A., Ph.D., *Assistant Professor of Psychology* (1957). (Resigned June 1, 1959.)
Gordon Alger Bergy, Ph.C., B.S.Pharm., M.S., *Professor Emeritus of Pharmacy* (1918), 1916. (Retired June 1, 1960.)
Opal Virginia Berkshire, *Assistant Director in Charge of Food Services, Mountainlair* (Resigned June 30, 1959.)
Betty Isaac Berthy, A.B., M.S.H.E., *Assistant Professor of Home Economics* (1957), 1956.
Howard Phillip Berthy,* B.S.F., *Extension Forester, Agricultural Extension Service* (1953), 1950.
Charity White Beto, A.B., M.S., *Associate Professor of Women's Physical Education* (1957), 1946.
William Robert Biddington, D.D.S., *Professor and Chairman of Endodontics* (1959).
Ired Bierer, *Supervisor of Maintenance, Athletics and Physical Education* (1947).
Robert Lee Birch, B.S., M.S., *Instructor in Biology* (1948).
Victor Edgar Bird, B.S., D.D.S., *Instructor* (part-time) *in Oral Surgery* (1959).
James Daniel Biser, *Mechanician in Industrial Engineering* (1957).

Carter Richard Bishop, A.B., M.A. Ph.D., *Professor of English* (1953), 1929.
Jay Temple Black, B.S.I.E., *Instructor* (part-time) *in Industrial Engineering* (1960).
Kittie Jean Blakemore, B.S.Ed., *Instructor in Women's Physical Education* (1960).
Charles William Blissitt, B.S., Ph.D., *Assistant Professor of Pharmacy* (1958).
Ruth Naomi Blodgett, A.B., B.S.L.S., *Documents Librarian* (1951), 1932.
Byron Michel Bloor, B.S., M.D., *Associate Professor and Chairman of Neurosurgery* (1960).
Sallie Shrewsbury Board, A.B., A.M., *Instructor in English* (1945).
Anna Mildred Boggs,* A.B., *Associate State Leader* (Retired) *in Home Demonstration Work, Agricultural Extension Service* (1956), 1927.
Earl Ruffner Boggs, A.M., M.A., Ph.D., *Professor and Dean, College of Education* (1960.)
Evelyn Lazenby Bonar, A.B., M.A., *Instructor in English* (1958).
Donovan Hiner Bond, B.S.J., M.A., *Director of Development; Professor of Journalism* (1960), 1946.
Gladys Violet Bond, R.N., *Nurse in Oral Surgery, Dentistry* (1959).
William Alfred Bonsall, B.S., M.S., *Assistant Professor of Physical Education and Gymnastics Coach* (1958), 1950.
George Paul Boomsliter, M.S.C.E., *Professor Emeritus of Mechanics* (1949), 1920.
Kenneth Ray Boord,* *Associate Agricultural Extension Editor, Agricultural Extension Service* (1953), 1943.
Winifred Marie Booth, B.S.Ed., M.A., *Assistant to Dean, College of Education* (1948), 1930.
Jennie Delawder Boughner, A.B., *Extension Assistant* (Retired), (1958), 1915.
George William Bowers, B.S., *Assistant Professor of Air Science* (1957). (Resigned September 15, 1960.)
Herman M. Bowers,* B.S.Agr., *Assistant Director, Agricultural Extension Service* (1951), 1929.
Joanne Walker Bowie,* A.B., *Assistant Extension Editor, Agricultural Extension Service* (1959), (On Leave of Absence.)
John Dee Bowser, B.S., M.S., *Instructor in Mathematics* (1959), 1957.
Betty Boyd, A.B., *Dean of Women* (1955), 1948.
Sam Boyd, Jr., B.F.A., M.F.A., *Professor of Speech; Director of Drama; University Marshal* (1959), 1943.
Charles Chester Boyer, B.S., M.A., Ph.D., *Associate Professor of Gross and Neurological Anatomy* (1957).
Fred Earl Boyers, B.S., D.D.S., *Assistant Professor of Prosthodontics* (1957).
Harold Henry Boyers, D.D.S., *Assistant Professor of Operative Dentistry* (1958).
William Robert Boyle, B.S., *Instructor* (part-time) *in Nuclear Engineering* (1960).
Charles Burton Boyles, B.S., M.S., *Instructor in Animal Science; Superintendent, Animal Husbandry Farm, Agricultural Experiment Station* (1959), 1954.
Emil Leslie Bradley, A.B., M.A., *Instructor in Mining Extension* (1945).
Allan James Braff, A.B., M.B.A., Ph.D., *Assistant Professor of Economics* (1959).
Louis Richard Bragg, A.B., M.S., Ph.D., *Associate Professor of Mathematics* (1959).
Mildred Peters Brain, A.B., *Chief Audio-Visual Aids Librarian* (1958).
James Paul Brawner, A.B., A.M., Ph.D., *Professor and Chairman of English* (1952), 1935.
George H. Breiding,* B.S.Agr., *Naturalist, Agricultural Extension Service, Oglebay Park, Wheeling , W. Va.* (1950).
Thomas John Brennan, B.S.Ed., M.A.Ed., Ed.D., *Associate Professor of Education* (1959), 1941.
Anna Brochick, A.B., M.A., *Instructor in Education; Teacher, University High School* (1938).
Marie Brodak, B.S.H.E., M.S.H.E., *Instructor in Home Economics* (1959), 1958. (Resigned May 31, 1960.)
Maurice Graham Brooks, A.B., M.S., *Professor of Wildlife; Forester, Agricultural Experiment Station* (1947), 1923.
Christopher George Brouzas, A.B., A.B. in Ed., A.M., Ph.D., *Professor and Chairman of Classics* (1935), 1926.
Clifford Woodrow Brown, B.S., M.F.A., *Associate Professor and Chairman of Music Education; Associate Professor of Education* (1956), 1942.

George Samuel Brown, A.B., M.S., *Coordinator of Rehabilitation Counseling* (1960).
James Harold Brown, B.S., M.F., *Assistant Silviculturist, Agricultural Experiment Station* (1957).
Londo Henderson Brown, A.B., LL.B., LL.M., *Professor of Law* (1955), 1950.
Robert Nathan Brown, A.B., *Director of Intercollegiate Athletics; Assistant Professor of Physical Education* (1954), 1950.
Sara Ann Brown, B.S., M.S., Ph.D., *Professor of Home Economics Education* (1955), 1946.
Stanley Cooper Browning, B.S.M.E., *Instructor in Mechanics* (1957). (Resigned May 31, 1959.)
Joyce Lickliter Broyles, *Teacher* (part-time) *University High School* (1959).
Randall Lee Broyles, B.S., M.A.Ed., *Teacher, University High School* (1958).
Kenneth Pierpont Brundage,* B.S., M.S., *Extension Farm Management Specialist, Agricultural Extension Service* (1954).
Allen Roy Bryant, B.S., M.S., *Instructor in Education; Teacher, University Hgh School* (1959).
John Allison Buchanan, B.S., *Instructor in Economics* (1957). (Resigned May 31, 1959.)
Jerry Cameron Burchinal, B.S.C.E., M.S.C.E., *Associate Professor of Civil Engineering* (1957), 1946.
Arthur Edgar Burford, A.B., M.S., Ph.D., *Assistant Professor of Geology* (1960).
Othmar Joseph Burger, B.S., M.A., Ph.D., *Assistant Dean, College of Agriculture, Forestry, and Home Economics; Director of Resident Instruction, Division of Agriculture* (1959), 1950.
William T. Burke, Jr., B.A., Ph.D., *Assistant Professor of Biochemistry* (1960).
Robert Barker Burrows, A.B., M.A., *Associate Professor of Speech; Director, Radio-Television Area of Speech* (1948).
Mary Catherine Buswell, B.A., M.A., *Assistant Professor of English* (1960), 1947.
Russell Clarke Butler, B.S.Agr., M.S., Ph.D., *Professor and Chairman of Agricultural Education; Professor of Education* (1956), 1944.
Edward Ford Byars, B.M.E., M.S.E., Ph.D., *Professor and Chairman of Theoretical and Applied Mechanics* (1960).
Richard Edward Cady, B.S., M.S., *Instructor in Mathematics* (1958), 1956. (Resigned June 30, 1959.)
Sherman Loar Calf, *Assistant Superintendent, Buildings and Grounds (Evansdale Campus)* (1960).
Janet Duffield Callahan, B.S., *Teacher and Librarian, University High School* (1960).
Charles Glenn Cambor, B.S., M.D., *Psychiatric Lecturer* (part-time) *in Social Work* (1959).
George Gross Campbell, B.S.E.M., *Petroleum Research Engineer, Engineering Experiment Station* (1956).
John Lloyd Campbell, M.S., D.D.S., *Professor and Chairman of Oral Surgery* (1960).
Thomas Corwith Campbell, Jr., A.B., M.A., Ph.D., *Professor of Economics* (1958), 1948.
William James Canady, B.S., M.S., Ph.D., *Assistant Professor of Biochemistry* (1958).
George Eugene Cannon, B.A., *Psychometrist, University Counseling Center* (1960).
Odilie Cantilliano y Vives, B.A., M.A., *Instructor in Romance Languages* (1959).
Nathan Robert Carb, Jr., B.A., M.A., *Instructor in English* (1956). (Resigned May 31, 1959.)
William John Carl, *Instructor Emeritus in Foundry Practice* (1943), 1920.
George A. Carleton, Maj. B.C.E., *Associate Professor of Military Science* (1955). (Resigned May 31, 1959.)
Leo Carlin, A.B., LL.B., *Professor Emeritus of Law* (1955), 1916.
Lorna Doone Carlin, A.B., M.S., *Instructor in Mathematics* (1955), 1943.
William Theodore Carlson, B.S., M.S., *Instructor in Agronomy; Assistant in Agronomy and Genetics, Agricultural Experiment Station* (1959).
James Franklin Carruth, B.S., M.S., Ph.D., *Associate Professor of Psychology; Chief of Counseling Services* (1957), 1953.
Wincie Ann Carruth, B.S., M.S., Ph.D., *Professor and Chairman of Women's Physical Education* (1957).
Patrick A. Carone, A.B., M.A., *Instructor in Political Science* (1960).
Maria Hilliard Cartledge, A.B., *Laboratory Technician in Agronomy and Genetics* (1954), 1952.

John Anthony Caruso, A.B., M.A., Ph.D., *Associate Professor of History, University Extension* (1959), 1950.

Michael A. Caruso, B.S., M.A., *Instructor in Education; Teacher, University High School* (1956).

Kenneth Llewellyn Carvell, B.A., M.F., D.For., *Associate Professor of Silviculture; Associate Silviculturist, Agricultural Experiment Station* (1956), 1953.

Lyle F. Cassell, B.S., *Instructor and Research Assistant in Poultry Husbandry* (1958), (Resigned January 31, 1960.)

Carl Henry Cather, B.S.M.E., M.S.M.E., *Professor of Theoretical and Applied Mechanics* (1960), 1916.

Carl Henry Cather, Jr., A.B., B.S., M.D., *Instructor* (part-time) *in Surgery* (1960).

Harold Malcolm Cather, B.S., M.S.M.E., M.E., *Professor of Mechanical Engineering; Mechanical Engineer, Engineering Experiment Station* (1960), 1919.

William Lee Chambers, B.S.C.E., *Instructor in Civil Engineering* (1957).

Ann McVea Chambliss, A.B., M.A., *Instructor in English* (1958), (Resigned September 1, 1960.)

William Orel Champney, B.S., M.S., *Assistant Agricultural Economist, Agricultural Experiment Station* (1958).

Simon B. Chandler, A.B., M.A., M.D., *Professor Emeritus of Anatomy* (1957), 1935.

Lois Watson Chappell, A.B., A.M., *Associate Professor* (Retired) *of English* (1952), 1923.

Roger Vernon Chastain, D.D.S., *Assistant Professor of Operative Dentistry* (1960).

Shih-Chieh Chen, B.S., *Assistant in Agricultural Biochemistry, Agricultural Experiment Station* (1960).

William Henry Childs, B.S., M.S., Ph.D., *Professor and Acting Chairman of Horticulture; Horticulturist, Agricultural Experiment Station* (1960), 1931.

Oliver Perry Chitwood, Ph.D., LL.D., *Professor Emeritus of History* (1946), 1907.

Ned Jay Christensen, B.A., M.A., Ph.D., *Assistant Professor of Speech* (1960), 1959.

Wallace Wayne Christensen, B.S.F., M.F., Ph.D., *Professor of Forest Economics; Forest Economist, Agricultural Experiment Station* (1960), 1956.

Burr Clark, Jr., B.S., M.S., *Assistant in Agricultural Biochemistry, Agricultural Experiment Station* (1960).

Thomas Baird Clark, B.S.A., M.S., *Associate Professor Emeritus of Poultry Husbandry; Associate Poultry Husbandman Emeritus, Agricultural Experiment Station* (1959), 1927.

James Harris Clarke, B.S.Agr., M.S.Agr., *Professor of Agricultural Economics; Agricultural Economist, Agricultural Experiment Station* (1960), 1939.

John Donald Clarkson, B.F.A., M.A., *Associate Professor of Art* (1954), 1948.

Roy Burdette Clarkson, B.S., A.B., Ph.D., *Assistant Professor of Biology* (1957), 1956.

Jesse Franklin Clovis, B.S.F., M.S., Ph.D., *Assistant Professor of Biology* (1957)

Charles Nelson Cochran, A.B., M.S., *Assistant Professor of Mathematics* (1957), 1951.

Billy Lee Coffindaffer,* B.S., M.S., *Assistant State Club Leader, Agricultural Extension Service* (1959), 1950. (On Leave of Absence 1960-61.)

Charles Richard Coffman, B.S., *Superintendent, Agronomy Farm* (1957).

Gilbert Cohen, M/Sgt., *Supply Sergeant, Military Science* (1957). (Resigned September 1, 1959.)

David Dale Cole, B.S., M.A., *Instructor in Psychology* (1960), 1958.

Margaret Buchanon Cole, A.B., Ph.D., *Associate Professor Emeritus of Mathematics* (1955), 1922. (Deceased September 10, 1959.)

George Henry Colebank, A.B., M.A., *Principal* (Retired) *University Demonstration High School* (1950), 1928.

Raymond W. Coleman, B.B.A., M.B.A., Ph.D.,*Professor of Economics and Management; Dean, College of Commerce* (1952), 1948.

Robert Eugene Coley, B.A., M.A., *Instructor in English* (1959).

Armand Rene Collett, A.B., Ph.D., *Dean, College of Arts and Sciences; Professor of Chemistry* (1951), 1924.

Clifford Warthen Collier, Jr.,* B.F.A., M.L.A., *Extension Landscape Architect, Agricultural Extension Service* (1960).

Edmond Byrl Collins, B.S.Agr.E., *Instructor in Agricultural Engineering; Assistant in Agricultural Engineering, Agricultural Experiment Station* (1960).

Henry D'Alton Collins, B.S., LL.B., LL.M., J.S.D., *Professor of Law* (1956), 1950.

CLYDE LEMUEL COLSON, A.B., LL.B., S.J.D., *Acting President of the University; Professor and Dean, College of Law* (1961), 1935.

ROBERT CAMERON COWELL, A.B., M.A., PH.D., D.SC., *Professor Emeritus of Physics* (1954), 1918. (Deceased June 10, 1959.)

FRANK GIRARD COMERFORD, B.S., *Instructor in Engineering, University Extension* (1953).

WILLIAM HOWARD CONKLE,* B.S., M.S., PH.D., *Extension Horticulturist, Agricultural Extension Service* (1959), 1941.

GEORGE EDWARD CONSTABLE, B.S., *Arboretum Assistant* (1956). (Resigned January 31, 1959.)

CHARLES CARUTHERS COOK, B.S.M.E., M.S.I.E., *Assistant Professor of Industrial Engineering* (1960), 1957.

KERMIT ALDERSON COOK, A.B., M.A., PH.D., *Professor of Secondary Education* (1959), 1935.

RUTH ELIZABETH COOK, B.S.H.E., M.S.H.E., *Instructor in Education; Teacher, University High School* (1951)

MELVIN GERALD COOPER, CAPT., LL.B., *Associate Professor of Air Science* (1959).

JEAN MCQUISTON COOVER, A.B., M.A., *Instructor in Mathematics* (1956), 1943.

LUCY MAY COPLIN, A.M., *Instructor Emeritus in Education* (1948), 1925. (Deceased July 10, 1959.)

WALTER LEE COPLIN, B.M., M.M., *Assistant Professor of Music* (1952), 1947.

ALFRED CLINTON CORE, B.S., M.S., *Instructor in Pharmacy* (1960).

EARL LEMLEY CORE, A.B., M.A., PH.D., D.SC., *Professor and Chairman of Biology* (1948), 1928.

MARY JANE CORLISS, B.S., M.S., *Instructor in Home Economics* (1958). (Resigned July 15, 1959.)

EARL EUGENE CORUM, B.S., M.S., *Head Football Coach* (1960), 1950.

ELIAS NICK COSTIANES, A.B., D.D.S., *Assistant Professor of Dental Anatomy* (1958), 1957. (Resigned June 30, 1959.)

HAZEL RUTH COUTTS, B.A., M.A., *Instructor* (Retired) *in Secretarial Studies* (1957), 1943. (Deceased September 11, 1960.)

STANLEY RHEY COX, JR., A.B., LL.B., *Lecturer in Business Law* (1956). (Resigned May 31, 1959.)

RUSSELL JOSEPH CRANE, B.S.ED., M.S.ED., *Assistant Football Coach* (1952).

BENJAMIN FRANKLIN CREECH,* B.S.AGR., *Animal Husbandman* (Retired) *Agricultural Extension Service* (1955), 1917.

DAVID RAYMOND CREEL,* *Photographer, Agricultural Experiment Station; Assistant Editor, Agricultural Extension Service* (1947).

JOHN REGINALD CRESSWELL, B.A., PH.D., *Professor of Philosophy* (1949), 1929.

HOWARD O. CROASMUN, B.S., *Financial Secretary, Comptroller's Office; Teaching Assistant in Commerce* (1956).

STEPHEN FULLER CROCKER, A.B., M.A., *Chairman of Integrated Studies; Professor of English* (1948), 1931.

WILLIAM EDWARD CROCKETT, B.S.CH.E., M.S.CH.E., *Instructor* (part-time) *in Chemical Engineering* (1957), 1956.

EUGENE ARTHUR CROENNE, M/SGT., *Instructor in Military Science* (1955). (Resigned June 4, 1959.)

EDWIN WILLIAM CROOKS, JR., B.S., M.A., M.B.A., D.B.A., *Associate Professor of Marketing* (1958), 1954.

ORRIN HARTSHORN CROSS, A.B., M.S., PH.D., *Associate Professor of Psychology* (1953), 1951.

CHARLES WILLIAM CRUM, B.S., *Instructor in Agronomy; Assistant in Agronomy, Agricultural Experiment Station* (1957). (Resigned September 15, 1960.)

A. B. CUNNINGHAM, A.B., M.S., PH.D., *Associate Professor of Mathematics* (1952), 1946.

CORNELIUS JETT CUNNINGHAM, B.S.AGR., *Associate Animal Husbandman in Charge of Reymann Memorial Experimental Farms* (P.O., Wardensville), *Agricultural Experiment Station* (1943).

GLENNIS HUDKINS CUNNINGHAM, A.B., M.A., *Instructor in Education* (1956). (Resigned December 12, 1959.)

GLORIA JEANNE CUNNINGHAM, B.S., *Teacher, University High School* (1958).

ROBERT FRANCIS CURRAN, CAPT., B.S., *Associate Professor of Military Science* (1960).

QUIN FISCHER CURTIS, A.B., A.M., PH.D., *Professor of Psychology; Chairman, Philosophy and Psychology* (1949), 1941.

Andrew Jackson Dadisman, B.S.A., M.S., Ph.D., *Professor Emeritus of Economics* (1957), 1914.
Stanley Everett Dadisman, A.B., LL.B., *Professor of Law* (1957).
Helen Marie Dasculink, B.S., *Nurse Supervisor, University Hospital* (1960).
Aloo J. Dastur, M.A., Ph.D., *Visiting Professor of Political Science* (1960).
Claude Jefferson Davis, A.B., M.A., Ph.D., *Research Assistant, Bureau for Government Research* (1957).
Hannibal Albert Davis, A.B., M.S., Ph.D., *Professor of Mathematics* (1948), 1924.
John Boatman Davis, B.S., D.D.S., *Professor and Chairman of Prosthodontics* (1957).
Leonard McCutchan Davis, A.B., M.A., Ph.D., *Assistant Professor of Speech* (1958), 1949.
Lloyd Moore Davis, A.B., M.A., *Instructor in English* (1959).
Patricia Ruth Davis, B.S., *Assistant Director of Mountainlair* (1957). (Resigned April 30, 1959.)
Roland Parker Davis, S.B., Ph.D., *Dean Emeritus, College of Engineering* (1955), 1911.
Oreta Holbert Dawson, A.B., M.A., *Instructor in English* (1947), 1946.
Ruthann Stephens Dayton, B.S.P.E., *Teacher, University High School* (1960). (Resigned May 31, 1960.)
Samuel Joseph Deal, B.S., M.S., Ph.D., *Assistant Professor of Microbiology* (1960).
Warren Edgell Dean, B.S., M.S., *Instructor in Chemistry* (1958). (Resigned May 31, 1959.)
Robert Lee Decker, B.A., M.A., Ph.D., *Assistant Professor of Psychology* (1957), 1955.
Montelle Deitrich, B.S., M.S., *Assistant Professor of Home Economics* (1941), 1929.
Charles Leroy Delaney, *Instructor in Industrial Engineering* (1946).
John Henry Dempsey, A.B., D.D.S., *Instructor* (part-time) *in Oral Diagnosis* (1960).
Carl Dennler, Jr., B.S., M.A., *Assistant Professor of Accounting* (1957).
Walter Howard Dickerson, B.S.C.E., B.S.Agr.Eng., M.S.Agr.Eng., *Professor of Agricultural Engineering; Agricultural Engineer, Agricultural Experiment Station* (1957), 1953.
Edmund Charles Dickinson, A.B., J.D., *Professor Emeritus of Law* (1952), 1921.
Robert Eugene Dill, B.S., *Forest Superintendent, Agricultural Experiment Station* (1958) (Resigned September 30, 1959.)
Stuart Parker Dillon, M/Sgt., *Instructor in Military Science* (1955), 1950. (Resigned March 11, 1960.)
Gideon Stanhope Dodds, B.A., M.A., Ph.D., *Professor Emeritus of Histology and Embryology* (1951), 1918.
Alan Chase Donaldson, B.A., M.S., Ph.D., *Assistant Professor of Geology* (1957).
Charles Gilbert Donaldson, B.S., *Assistant Football Coach; Instructor in Physical Education* (1956).
Phillip Barnard Donley, B.S., *Assistant Athletic Trainer; Instructor in Physical Education* (1960).
Robert Tucker Donley, A.B., LL.B., *Professor of Law* (1947), 1929.
Patrick Andrew Donnally, B.S.I.E., *Instructor in Industrial Engineering* (1960).
Carl Kester Dorsey, A.B., M.S., Ph.D., *Professor of Entomology; Entomologist, Agricultural Experiment Station* (1951), 1947.
Carleton Paul Dorsey,* B.S.Agr., M.S.Agr., *State Club Leader, Agricultural Extension Service* (1952), 1927.
Catherine McKelvey Dorsey, B.A., M.A., *Instructor in Education; Teacher, University High School* (1948), 1943.
Elizabeth McNeil Dorsey, B.S.H.E., M.H.E., *Instructor* (part-time) *in Home Economics* (1960), 1929. (Resigned May 31, 1960.)
James Robert Dosier, B.S., M.A., *Instructor in Mathematics* (1959).
Samuel Charles Dotson, Jr., M.D., *Physician, University Health Service* (1960).
Bonnie Houser Douglas, B.S., *Administrative Nursing Supervisor, In-service Staff and Student Education* (1960).
Harold A. Dove, *Animal Caretaker (Medical Center)*, (1955).
David William Dowdel, A.B., A.M., *Instructor in English* (1947), 1946.
Meta Michaelsen Downes, B.A., M.A., *Instructor in French* (1960).
Elizabeth Ellen Downey, B.S., B.S. in L.S., *Chief Acquisition Librarian* (1955), 1949. (Resigned February 28, 1959.)
Leslie Dozsa, D.V.M., *Assistant Professor of Veterinary Science; Assistant Veterinarian, Agricultural Experiment Station* (1957).

Barbara Adeline Drainer, B.A., M.A., *Assistant Professor of Art* (1957), 1952.
John William Draper, B.A., M.A., Ph.D., *Professor of English* (1929).
Arno Paul Drucker, B.M., M.M., *Instructor in Music* (1959).
Everette Charles Dubbe, B.S.E.E., *Associate Professor of Electrical Engineering* (1959), 1947.
Robert Standish Dunbar, Jr., B.S., M.S., Ph.D., *Professor of Statistics; Statistician, Agricultural Experiment Station and Agricultural Administration* (1960), 1952.
Ray Oscar Duncan, *Professor of Physical Education; Dean, School of Physical and Health Education, Recreation, and Safety* (1952).
Richard Edward Duncan, B.M., M.A., Ph.D., *Dean, School of Music* (1958).
Robert Barclay Dustman, Ph.D., *Dean Emeritus of the Graduate School* (1960), 1924.
James Joseph Dyar, A.B., M.S., Ph.D., *Assistant Professor of Biology* (1960).
Ann Culley Dye, B.S.H.E., *Dietitian, Women's Dining Hall* (1937).
Arthur Pingree Dye, B.S.Agr., M.S., *Assistant Professor of Horticulture; Assistant Horticulturist, Agricultural Experiment Station* (1940), 1923.
James E. Dyson, Jr., B.S., M.S., Ph.D., *Assistant Professor of Microbiology* (1958).
Jason Clark Easton, B.A., M.A., Ph.D., *Professor of History* (1938).
Joy Bromberg Easton, B.S., M.S., *Instructor in Mathematics* (1955), 1948.
Harold C. Edelston, A.B., M.S., *Lecturer* (part-time) *in Social Work* (1956).
David Everett Edwards, M.D., *Psychiatrist* (part-time), *University Helath Service* (1959).
William August Ehrgott, B.S., M.D., *Associate Professor* (part-time) *of Pathology* (1959), 1949.
John Eichenmuller, Jr., A.B., M.S., *Assistant in Plant Pathology, Agricultural Experiment Station* (1958).
Eugene Randall Elkins, A.B., *Research Assistant, Bureau for Government Research* (1952).
John Carlisle Ellers, B.S., M.S., *Instructor in Chemistry* (1957).
Edward Summer Elliott, B.A., M.S., Ph.D., *Assistant Professor of Plant Pathology; Assistant Plant Pathologist, Agricultural Experiment Station* (1953).
Kendall Clark Elliott, B.S., *Instructor in Agricultural Engineering; Assistant in Agricultural Engineering, Agricultural Experiment Station* (1954).
Joan Marie Ellis, B.A., M.A., *Assistant Curator, West Virginia Collection, Library* (1957).
Robert Curtis Ellison, B.S.E.E., *Instructor* (part-time) *in Electrical Engineering* (1960).
Tennis Ellison, S/Sgt., *Administrative Assistant and Instructor in Air Science* (1956). (Resigned August 1, 1960.)
Joseph C. Emch,* B.S., M.S., *Extension Animal Husbandman, Agricultural Extension Service* (1953), 1947.
Roy Eugene Emerson, B.S., M.S., *Associate Professor of Agricultural Engineering; Associate Agricultural Engineer, Agricultural Experiment Station* (1957), 1940.
James DeWitt Emery, B.S., M.B.A., *Instructor in Economics* (1960).
Jon Evan Engberg, B.M., M.M., *Instructor in Music* (1959).
Dorothy Catherine Engle, A.B., M.A., *Instructor in Education; Teacher, University High School* (1955).
Clyde Neville English, B.A., M.S.M., D.S.M., A.A.G.O., *Associate Professor of Music* (1953), 1945.
Grace Metzger English, B.A., *Residence Halls Reservation Clerk* (1956).
Thomas Edson Ennis, A.B., M.A., Ph.D., *Professor of History* (1946), 1930.
Frank Livingston Evans, B.A., M.A., *Instructor in History* (1959).
Homer Clark Evans, B.S., M.S., Ph.D., *Professor and Chairman of Agricultural Economics; Agricultural Economist, Agricultural Experiment Station* (1960), 1949.
Harold Vincent Fairbanks, B.S., M.S., *Professor of Metallurgical Engineering; Metallurgical Engineer, Engineering Experiment Station* (1955), 1947.
Stanley Farr, B.S.Ch.E., M.S., *Instructor in Physics* (1953), 1947.
Martha Fleming Fawcett, Std. Norm., *Social Director, Women's Hall* (1959).
Mary Carolyn Feagans, B.S.Ed., *Executive Director, Y.W.C.A.* (1949). (Resigned June 30, 1960.)
Marja Steadman Fear, M.A., *Associate Professor Emeritus of Speech* (1953), 1920.
Eston Kermit Feaster, B.A., M.A., Ed.D., *Professor and Dean, College of Education* (1953), 1949. (Resigned July 1, 1960.)
Frank John Federovitch, M.A., *Instructor in Physical Education; Assistant Football Coach* (1960), 1958.

Remo Ferrante, B.S., M.A., *Instructor in German* (1960).

Frank Lawson Ferrell, M/Sgt., *Instructor in Military Science* (1959).

Edward Burton Findley, M/Sgt., *Supply Sergeant, Military Science* (1959).

Howard Lee Finton, B.A., M.A., *Instructor in English* (1959).

Francis Pierce Fisher, A.B., *Lecturer in Journalism* (1954).

Mildred Fairfield Fisher, *Administrative Assistant to Vice President, University Medical Center* (1959), 1926.

Betty G. Fishman, B.A., M.A., *Lecturer in Economics* (1957), 1948.

Leo Fishman, B.A., M.A., Ph.D., *Professor of Economics and Finance* (1952), 1947.

Homer Milton Fizer, B.S., M.S., *Instructor in Education; Teacher, University High School* (1960), 1940.

Mildred Evalena Fizer,* A.B., *State Girls' Club Agent, Agricultural Extension Service* (1953), 1946.

John J. Flasher, B.A., M.A., *Instructor in Romance Languages* (1956). (Resigned August 31, 1960.)

William W. Fleming, A.B., M.A., Ph.D., *Assistant Professor of Pharmacology* (1960).

Virgil Henry Flesher, B.S., M.S., *Assistant Professor of Agricultural Engineering; Assistant Agricultural Engineer, Agricultural Experiment Station* (1957). (Resigned June 30, 1960.)

Edmund Berney Flink, M.B., M.D., Ph.D., *Professor and Chairman of Medicine* (1960).

Joe Edward Ford, A.B., M.A., *Assistant Professor of Speech; Technical Supervisor, University Theatre; Director, West Virginia High School Drama Festival* (1953).

O. Rex Ford, Ph.D., *Professor of Physics* (1943), 1925.

William Robert Fortney, B.S., M.S., Ph.D., *Associate Professor of Horticulture; Associate Horticulturist, Agricultural Experiment Station* (1960), 1956.

Joyce Anne Foss, B.S., M.S., *Administrative Dietitian, University Hospital Dietetics Department* (1960).

Ruel Elton Foster, A.B., M.A., Ph.D., *Professor of English* (1957), 1942.

Robert Durant Fowler, B.S.E.E., B.S.I.E., M.S.I.E., *Associate Professor of Industrial Engineering* (1959).

Claud Mahlon Fraleigh, D.D.S., M.S.D., *Professor and Chairman of Periodontics* (1959).

Frederick William Franck, A.B., M.A., *Instructor in Romance Languages* (1960).

Lavina Mary Franck, B.S., M.S., *Associate Professor of Home Economics* (1959), 1957.

Carl Maynard Frasure, B.A., M.A., Ph.D., *Professor and Chairman of Political Science; Director, Bureau for Government Research* (1940), 1927.

Ben Frank Freedman, B.F.A., M.A., *Instructor in Art* (1957).

Emile George Frere, B.S., M.A., *Instructor in Romance Languages* (1949), 1947. (Resigned September 1, 1960.)

Ray Jerome Friant,* B.S., *Extension Agronomist, Agricultural Extension Service* (1929), 1922. (Retired July 1, 1960.)

Harry Marion Fridley, B.S., M.S., Ph.D., *Professor and Chairman of Geology* (1951), 1928.

Richard Adam Frisch, B.S., *Instructor* (part-time) *in Theoretical and Applied Mechanics* (1960).

Jack Front, B.S., Cert. Phys. Therp., *Chief Physical Therapist, University Medical Center* (1960).

Alderson F. Fry, B.S., M.L.S., M.A., LL.B., *University Medical Center Librarian* (1954).

Nicholas William Fugo, A.B., M.S., Ph.D., M.D., *Professor and Chairman of Obstetrics and Gynecology* (1960).

Thompson R. Fulton, A.B., A.M., *Professor of Social Work* (1953), 1946.

Jack William Futrell, B.A., M.A., *Instructor in English* (1955).

Francis X. Gabriel, Capt., B.S., *Associate Professor of Military Science* (1957). (Resigned September 20, 1960.)

Patrick Ward Gainer, A.B., M.A., Ph.D., *Professor of English* (1957), 1946.

Mannon Elihu Gallegly, B.S.A., M.S., Ph.D., *Professor of Plant Pathology; Plant Pathologist, Agricultural Experiment Station* (1960), 1949.

Alfred Freddie Galli, B.S.Ch.E., M.S.Ch.E., *Assistant Professor of Chemical Engineering* (1956), 1946.

Sidney Longman Galpin, Ph.D., *Professor Emeritus of Hydrology; Hydrologist Emeritus, Agricultural Experiment Station* (1957), 1927.

Edwin C. Gangloff, B.A., M.A. Ph.D., *Assistant Professor of Biochemistry* (1955).

Louis Allen Garvin, Maj., B.S., *Assistant Professor of Air Science* (1960).

Avery Freeman Gaskins, A.B., M.A., *Instructor in English* (1958), 1954.

Thomas William Gavett, B.B.A., M.S., Ph.D., *Director, Institute of Industrial Relations; Assistant Professor of Economics* (1958), 1957.

Frederick Linck Geiler, B.Sc., M.Sc., *Professor of Pharmacy* (1950), 1928.

Hasan Tahsin Gencsoy, B.S.M.E., M.S.M.E., *Assistant Professor of Mechanical Engineering* (1957), 1949.

Clara Fay George, B.S.Pharm., *Pharmacist, University Health Center* (1951).

John Everett Gertner, M.A., *Psychometrist, Philosophy and Psychology* (1958). (Resigned September 1, 1959.)

Walter Henry Gerwig, Jr., A.B., M.D., *Clinical Associate Professor of Surgery* (1960).

Harold Alan Gibbard, B.A., M.A., Ph.D., *Professor and Chairman of Sociology; Acting Chairman of Social Work* (1960), 1948.

Con Gene Gibson, B.B.A., *Assistant Football Coach* (1958). (Resigned February 29, 1960.)

John Arthur Gibson, Jr., B.S., Ph.D., *Professor of Chemistry* (1953), 1926.

Mickey Gibson, B.A., M.A., *Instructor in Sociology* (1960).

Alan M. Gilbert, B.A., M.H.A., *Assistant Director, University Hospital* (1960).

Bernard Gilbert, B.S., M.S., *Instructor in Mathematics* (1958).

Frances Cooke Gilchrist, A.B., M.A., *Instructor in English* (1958). (Resigned September 1, 1960.)

Thomas Mary Gilfoil, B.S., M.S., Ph.D., *Instructor in Physiology* (1958). (Resigned May 31, 1960.)

Royal Clarence Gilkey, A.B., A.M., Ph.D., *Assistant Professor of Political Science* (1957).

William Harry Gillespie, B.S., M.S., *Instructor in Geology* (1958), 1957.

Chesla Armilla Gilmore, *Laboratory Technician, University Health Service* (1957).

Mary Ann Gingrich, *Director, Women's Hall* (1955). (Retired September 1, 1960.)

Russell Henderson Gist,* B.S.Agr., *State Agent* (Retired), *Agricultural Extension Service* (1958), 1924.

Wilbert E. Gladfelter, A.B., Ph.D., *Instructor in Physiology* (1959).

Mary Jane Glasscock, B.M., M.M., *Supervisor of Student Teachers in Elementary Music, College of Education* (1947), 1943.

Joseph Clay Gluck, B.A., B.D., *Director of Student Affairs* (1948), 1943.

B. Bernettie Gnegy, R.N., *Nurse, University Infirmary* (1957) (Resigned June 30, 1960.)

Herman Godes, M.M., *Associate Professor of Music* (1960).

Erwin Goldberg, B.A., M.S., Ph.D., *Assistant Professor of Biology* (1958).

Joseph Arnold Golz, B.S., M.A., *Assistant Professor of Music* (1959).

Elizabeth Jane Goodall, A.B., M.A., *Associate Professor of History, University Extension* (1945).

Claude Arwe Goode, B.S., *Instructor in Mining Extension* (1956).

William Russell Goodge, B.S., M.A., Ph.D., *Instructor in Gross and Neurological Anatomy* (1957).

Allen Wright Goodspeed, B.S., M.F., *Professor of Forest Management; Forester, Agricultural Experiment Station* (1949).

Edwin Gould, B.S.Agr., *Entomologist in Charge of University Experiment Farm* (P. O. Kearneysville), Agricultural Experiment Station (1946), 1929.

Henry Wadsworth Gould, B.A., M.A., *Instructor in Mathematics* (1958).

Danny Joe Goulding, A.B., M.A., *Coordinator of University Relations* (1960), 1958.

William Lee Graham, B.A., D.D.S., *Associate Professor of Oral Diagnosis* (1959).

William Lute Graves, Jr., B.A., M.M., M.A. Mus.D., *Assistant Professor of Music* (1960).

Thomas Davis Gray,* B.S., *Extension Landscape Architect, Agricultural Extension Service* (1959), 1919. (Retired June 30, 1959.)

Evelyn Alice Nicholai Graybeal, B.S., M.S., *Junior Reference Librarian* (1957). (Resigned August 12, 1959).

Jack Daniel Graybeal, B.S., M.S., Ph.D., *Assistant Professor of Chemistry* (1957).

LLOYD RAYMOND GRIBBLE, B.S., M.S., PH.D., *Assistant Dean, College of Arts and Sciences; Professor of Zoology* (1954), 1929.
GRACE MARGARET GRIFFIN, M.A., *Professor Emeritus of Physical Education* (1957), 1923.
EMILY G. GRIFFITH, R.N., *General Duty Nurse, University Infirmary* (1959).
LILLIAM V. GROSS, R.N., *Nurse, University Infirmary* (1960).
JOHN BEHNY GRUMBEIN, B.S.M.E., M.M.E., *Professor Emeritus of Power Engineering* (1945), 1903. (Deceased November 29, 1959.)
ROLAND LEE GUTHRIE, B.S.F., M.S., *Arboretum Assistant* (1959), 1956.
JOEL ALDERSON GWINN, B.S.ED., M.A., M.S., *Instructor* (part-time) *in Physics* (1958). (Resigned June 30, 1959).
ALBERT C. GWYNNE, B.S., M.S., *Head Athletic Trainer, Intercollegiate Athletics; Assistant Professor of Physical Education* (1946), 1934.
OTTFRIED JOHANNES HAHN, B.SC., *Research Associate, Engineering Experiment Station* (1959).
CHARLES ADRIAN HALEY, M/SGT., *Instructor in Military Science; Assistant Rifle Team Coach* (1958), 1953.
ARTHUR A. HALL, B.S.M.E., *Professor Emeritus of Electrical Engineering* (1951), 1916.
GEORGE ARTHUR HALL, B.S., PH.D., *Associate Professor of Chemistry* (1956), 1950.
JAMES LESTER HALL, A.B., M.S., PH.D., *Professor of Chemistry* (1955), 1946.
JOHN EDGAR HALL, B.S., M.S., PH.D., *Assistant Professor of Microbiology* (1958).
LILLIAN BAILEY HALL, *Dietitian, Women's Dining Hall* (1953), 1952.
SAM H. HALL, S/SGT., *Administrative Assistant, Air Science* (1960).
FRANCIS GERALD HAM, A.B., M.A., *Associate Curator, West Virginia Collection* (1958).
PAUL W. HAMELMAN, A.B., M.B.A., *Assistant Professor of Management* (1960).
JAMES FRANCIS HAMILTON, B.S.M.E., M.M.E., *Associate Professor of Mechanical Engineering* (1956), 1955. (Resigned May 31, 1960.)
CLIFFORD CHARLES HAMRICK, A.B., *Junior Reference Librarian* (1959). (Resigned July 31, 1960.)
JOHN RICHARD HANKINS, A.B., M.A., *Instructor in English* (1960), 1956.
ROSCOE ELTON HANNA, JR., B.S., *Supervisor of Industrial Extension; Assistant Director, Fire Service Extension* (1949), 1944.
CLARA REED HARDESTY, B.M., *Social Director, Terrace Residence Hall* (1952), 1945. (Resigned September 1, 1960.)
EVAN MERRILL HARDIN, *Chief Engineer, Medical Center Buildings and Grounds* (1956).
NESTOR CARL HARDIN, JR.,* B.S., *Extension Specialist in Vegetable Gardening, Agricultural Extension Service* (1960), 1958.
THOMAS PORTER HARDMAN, M.A., J.D., *Professor Emeritus of Law* (1957), 1913.
MARION DOLORES HARLESS, A.B., M.A., *Instructor in Psychology* (1960).
JOHN BARKER HARLEY, B.S., M.D., *Assistant Professor of Medicine* (1955).
KENNETH REED HARPER, B.S., M.S., *Instructor in Education; Teacher, University High School* (1958), 1956.
PHYLLIS ANN HARPER, M.S., B.S.H.E., *Staff Dietitian, University Hospital* (1960).
MARYELSIE HAWKINS HARRELL, B.A., M.A., *Instructor in Mathematics* (1954). (Resigned May 31, 1961.)
WILLIAM KNOX HARRELL, B.S., M.S., PH.D., *Associate Professor of Microbiology* (1959), 1955. (Resigned August 31, 1960.)
STEPHEN HARRICK, A.B., M.A., *Head Baseball and Wrestling Coach; Associate Professor of Physical Education* (1955), 1924.
ERNEST KEITH HARRIS, S/SGT., *Supply Sergeant, Air Science,* (1958).
STANLEY ROBERT HARRIS, A.B., M.S., *Assistant Registrar* (1953).
CHARLES HENRY HARTLEY,* B.S., *State Club Leader* (Retired), *Agricultural Extension Service* (1933), 1914.
HARVEY H. HARTWIG, MAJ., B.S., *Executive Officer and Associate Professor of Military Science* (1957).
H. RICHARD HARTZLER, A.B., J.D., *Assistant Professor of Commerce* (1959).
CLARENCE HARVEY, JR., M.A., *Instructor in Education; Teacher, University High School* (1957). (Resigned September 1, 1959.)
JOHN JACKSON HARVEY,* M.S., *Rural Organization Specialist, Agricultural Extension Service* (1956), 1953. (Leave of Absence 1960-61.)
VIRGINIA COURTNEY HARVEY, B.S.H.E., *Dietitian, Terrace Dining Hall* (1959).
TED ROBERT HASH,* B.S., *Extension Poultryman, Agricultural Extension Service* (1947), 1937.

Archie Oscar Haughland, B.M.E., B.M., M.M., D.M.A., *Associate Professor of Music; Chairman of Theory and Composition* (1957), 1949. (Resigned May 31, 1960.)

Fabry Livingstone Hawk, *Assistant Director, University Health Service Laboratory* (1956), 1935.

Donald Edward Hayhurst, A.B., M.Litt., Ph.D., *Associate Professor of Political Science* (1959), 1956.

Virginia Jean Marshall Hayhurst, B.S.P.E., M.S.P.E., *Instructor in Education; Teacher, University High School* (1947). (Resigned January 31, 1960.)

J. Lester Hayman, Ph.D., B.S.Pharm., M.S., *Dean, School of Pharmacy; Professor of Pharmacognosy* (1936), 1919.

Milton Tidd Heald, A.B., M.A., Ph.D., *Professor of Geology* (1960), 1948.

Lois Vivaneen Heflin, A.B., M.S., *Instructor in Mathematics* (1956).

Clarence Jacob Hein, A.B., M.A., Ph.D., *Visiting Professor of Political Science* (1958). (Resigned June 30, 1959).

J. O. Heishman, D.V.S., *Associate Animal Pathologist, Reymann Memorial Farms* (Wardensville), *Agricultural Experiment Station* (1949).

Edgar Frank Heiskell, Jr., A.B., B.S., M.D., *Physician* (part-time) *University Health Service; Clinical Assistant Professor of Surgery* (1957), 1948.

Lou Rae Heldreth, R.N., B.S., *Medical and Surgical Nursing Supervisor* (1960).

Harry Oram Henderson, B.S., M.S., Ph.D., *Professor Emeritus of Dairy Husbandry; Dairy Husbandman Emeritus, Agricultural Experiment Station* (1928), 1919. (Retired July 1, 1960.)

Linnea Elizabeth Henderson, A.B., B.S.N., M.A., *Assistant Professor of Nursing Education* (1957), 1956. (Resigned May 31, 1959.)

Claire Young Henn, B.S., *Supervisor, University Hospital Business Office* (1960).

Dora Fergusson Hennen, A.B., M.S., *Instructor in Mathematics* (1958), 1933.

Dreama Skaggs Hennessee,* B.S.H.E., *Assistant State Leader, Home Demonstration Work, Agricultural Extension Service* (1957), 1955.

James H. Henning, A.B., M.S., Ph.D., *Professor and Chairman of Speech* (1945).

Patricia Ann Henning, B.S., M.S., *Junior Reference Librarian* (1960).

Lyle E. Herod, A.B., M.S., *Assistant Registrar, Medical Center* (1956), 1947.

Francisco Herrera, A.B., M.A., *Associate Professor of Romance Languages* (1960), 1946.

Irwin Lawrence Herrnstadt, B.A., *Assistant Professor of Economics* (1958). (Resigned September 1, 1960.)

John William Hesen, A.B., M.S., B.S., M.D., *Physician, University Health Service and Athletic Department; Assistant Professor of Physical Education* (1959), 1957.

Willis H. Hertig, Jr., A.B., M.A., *Instructor in Biology* (1960).

C. Gordon Hewes, B.A., M.S., Ph.D., *Associate Professor of Gross and Neurological Anatomy* (1960)

James Blake Hickman, B.S., M.S., Ph.D., *Associate Professor of Chemistry* (1956), 1946.

John Lewis Hicks, Jr., A.B., A.M., *Assistant Professor of English; Director, Freshman English* (1960), 1949.

A. Curtis Higginbotham, B.S., Ph.D., *Associate Professor of Microanatomy and Organology* (1957).

Leonard F. Higney, A/1c, *Administrative Assistant, Air Science* (1960).

Hubert Hill, B.S., M.S., *Professor Emeritus of Chemistry*, 1951 (1911). (Deceased July 9, 1960.)

Lawrence Benjamin Hill, A.B., A.M., Ph.D., *Professor Emeritus of Education* (1957), 1918.

Claude Bernard Hillis, B.S., M.S., *Teacher, University High School* (1958). (Resigned September 1, 1959.)

Richard B. Hilts, B.M., M.M., *Assistant Professor of Music; Acting Chairman of Applied Music* (1960), 1956.

Bohdan Taras Hnatiuk, B.S.Ed., Dipl.Eng., Dr.Ing., *Professor of Aero-Space Engineering* (1957). (Resigned August 31, 1960.)

Milford Leroy Hobbs, M.D., *Professor and Chairman of Pathology* (1947).

Charles Edward Hockenberry, B.S., M.S., *Assistant Business Manager of Intercollegiate Athletics* (1956), 1952.

William Wellington Hodge, M.A., *Professor Emeritus of Chemical Engineering* (1946), 1921. (Deceased January 23, 1961.)

Mary Jean Hodor, A.B., A.M., *Instructor in English* (1960).

Arthur Newsome Hofstetter, A.B., M.A., Ed.D., *Associate Professor of Education* (1956), 1955.
Jacquelyn Ann Hogue, B.S., M.S., *Assistant Director, Mountainlair* (1960).
Margaret Price Hoke, A.B., M.A., *Instructor in Integrated Studies and English* (1955).
William Wells Hokman, B.S.Ed., M.A., M.S., *Instructor in Mathematics* (1956). (Resigned May 31, 1960.)
Ruth Wheeler Holden, M.A., *Instructor in English* (1944).
Frederick John Holter, A.B., M.A., Ph.D., *Professor and Chairman of Health Education and Graduate Studies* (1948), 1947.
Ann Hook, B.S., *Assistant Director, Mountainlair* (1960).
Leo Horacek, B.M.E., B.M., M.M.E., Ph.D., *Assistant Professor of Music* (1960).
Donald James Horvath, B.S., M.S., Ph.D., *Associate Professor of Animal Science; Associate Animal Husbandman, Agricultural Experiment Station* (1960), 1957.
Stanley Milton Hostler, B.A., M.A., *Labor Extension Specialist, University Extension* (1959).
David Franklin Hotz, A.B., Ph.D., *Assistant Professor of Physics* (1960).
Jacquelyn Ann Houge, B.S., M.S., *Mountainlair Program Director* (1960).
Edward W. Houy, Jr., Capt., B.S., *Associate Professor of Military Science and Supply Officer* (1959).
Agnes B. Hovee, B.A., M.A., *Director of Residence Halls* (1956), 1950.
John Weston Howard, A.B., A.M., *Assistant Professor of Dental Literature* (1959), 1950.
Martha Cummins Howard, A.B., A.M., *Instructor in English* (1960).
Herbert Henry Howenstein, *Draftsman, Agricultural Experiment Station* (1956).
Earl Hudelson, A.B., M.A., Ph.D., *Professor Emeritus of Education* (1959), 1920.
Donald Thedron Huffman, B.A., M.A., *Instructor in German* (1956).
Kathryn Huffman, A.B., M.S., *Assistant Chemist* (part-time) *Engineering Experiment Station* (1944).
Dolores Hughes, A.B., M.A., *Instructor in Psychology* (1958).
George Louis Humphrey, A.B., M.S., Ph.D., *Associate Professor of Chemistry* (1957), 1952.
Gertrude Humphreys,* A.B., *State Leader, Home Demonstration Work, Agricultural Extension Service* (1933), 1926.
Beatrice Hurst, A.B., M.A., *Associate Professor of Women's Physical Education* (1951), 1928.
James Franklin Huston, B.A., M.Letters, *Instructor in Commerce* (1956).
Blanche Lucille Hutchinson, B.M., M.M., *Accompanist and Instructor in Physical Education* (1954).
Joseph M. Hutchison, Jr., A.B., M.S., *Instructor in Recreation* (1957).
Doris John Huzzey, A.B., M.A., *Instructor in English* (1960). (Resigned May 31, 1961.)
Betty Jo Hypes, B.S., M.A., *Instructor in English* (1960), 1956.
Harold Marteney Hyre, B.S., M.S., *Associate Professor of Poultry Science; Associate Poultry Husbandman, Agricultural Experiment Station* (1944), 1931.
Lawrence Joseph Intravaia, B.M.Ed., M.M.Ed., *Assistant Professor of Music and Director of University Bands* (1953), 1950. (Leave of Absence September 1, 1960 to May 31, 1961.)
Thomas Stanley Isaack, B.B.A., M.B.A., D.B.A., *Professor of Management* (1960), 1951.
Norman D. Jackson, B.S.F., M.W.T., *Instructor in Forest Utilization* (1957), 1953.
David Wood Jacobs, A.B., *Director, Bureau of Public Information; Executive Secretary, Alumni Association* (1938).
Sylvia Rosalie Jacobson, B.A., M.S., *Associate Professor of Psychiatric Work* (1956). (Resigned July 1, 1960.)
Vernon Rhodes James, *Lecturer in Journalism* (1953).
Walter H. Jarecke, B.S.Ed., M.Ed., Ed.D., *Director of Guidance, College of Education* (1949).
Oleg Jefimenko, B.A., M.A., Ph.D., *Associate Professor of Physics* (1960), 1956.
Everett Milton Jencks, B.S., Ph.D., *Assistant Professor of Agronomy; Assistant Agronomist, Agricultural Experiment Station* (1957).
Barbara Jean Johnson, R.N., *Third Floor Head Nurse, University Hospital* (1960).
Carl Edward Johnson, A.B., B.S., M.D., *Instructor* (part-time) *in Medicine* (1940).

CLYDE EDGAR JOHNSON, JR., B.A., M.S., *Instructor* (part-time) *in Biology* (1960), 1957.

GALE RAY JOHNSON, M/SGT., *Instructor in Military Science* (1956). (Resigned July 11, 1959).

JAY EWERS JOHNSON, JR., B.S., M.B.A., C.P.A., *Instructor in Accounting* (1956).

MELVIN WALTER JOHNSON, JR., B.S., M.S., PH.D., *Associate Professor of Agronomy; Associate Agronomist, Agricultural Experiment Station* (1960), 1956.

RAYMOND E. JOHNSON, CAPT., *Associate Professor of Military Science* (1956). (Resigned July 28, 1959.)

ROBERT JOSEPH JOHNSON, M.D., *Professor and Chairman of Gross and Neurological Anatomy* (1957).

ROBERT LEE JOHNSON, JR., B.A., M.A., PH.D., *Assistant Professor of History* (1956), 1954. (Resigned September 1, 1959.)

SHIRLEY EVANGELINE JOHNSON, B.A., M.A., *Instructor in English* (1958).

JOHN HUBERT JOHNSTON, B.A., M.A., PH.D., *Assistant Professor of English* (1960), 1954. (Resigned May 31, 1960.)

CLYDE JONES, B.A., M.A., *Instructor in English* (1958). (Resigned January 15, 1960.)

EDWIN CHANNING JONES, B.S.E.E., M.S.E.E., *Professor and Chairman of Electrical Engineering; Electrical Engineer, Engineering Experiment Station* (1948), 1925.

EMERSON EDWARD JONES, B.S.I.E., *Instructor in Industrial Engineering* (1959), 1958. (Resigned May 31, 1960.)

ERNEST LEWIS JONES, A.B., M.A., *Supervisor, Data Processing Center, Registrar's Office* (1955).

HUGH H. JONES, MAJ., B.A., *Associate Professor of Military Science* (1957). (Resigned July 25, 1959.)

MARY ROSE TAYLOR JONES, B.S., M.S., *Associate Professor of Home Economics* (1959), 1941.

OWEN LLOYD JONES, A.B., M.S., *Instructor in Chemistry* (1960), 1957.

PATRICIA KELLY JONES, A.B., D.B., *Executive Secretary, University Y.W.C.A.* (1960).

PAUL RUSSELL JONES, B.CER.E., M.S., *Professor of Ceramic Engineering* (1959), 1947.

RICHARD E. JONES, M.D., *Professor and Chairman of Anesthesiology* (1960)

GERALD ALVIN JUNG, B.S., M.S., PH.D., *Assistant Professor of Agronomy; Assistant Agronomist, Agricultural Experiment Station* (1958).

THOMAS JAMES KARRAS, B.S.E.E., M.S., *Instructor in Electrical Engineering* (1960), 1959.

WILLIAM K. KATZ, B.S., M.S., *Assistant Professor of Education* (1959).

LOUISE KEENER, B.A., *Comptroller and Director of Business Affairs* (1954), 1929.

REYNOLD R. KELEHER, LT. COL., B.S., *Associate Professor of Military Science and Executive Officer* (1957). (Resigned August 9, 1960.)

ROBERT CLAY KELLISON, B.S.F., *Forest Superintendent, Division of Forestry* (1959).

ELMER ELLSWORTH KELLN, B.S., D.D.S., M.S.D., *Associate Professor of Oral Pathology* (1960).

ANNA MARY KELLY, *Librarian, College of Law* (1959), 1958.

WARREN GEORGE KELLY, B.S.AGR., M.S.AGR., *Assistant Professor of Agricultural Education* (1957).

CLAUDE RAY KEMPER,* B.S.AGR., M.S.AGR., *District Agent, Agricultural Extension Service* (1955), 1946.

EDDIE CLIFTON KENNEDY, A.B., A.M., D.ED., *Professor of Education; Director of Student Teaching; Chairman of Elementary Education* (1957), 1953.

ALEXANDER DONOVAN KENNY, B.S., M.S., PH.D., *Associate Professor of Pharmacology* (1959).

JAMES ALBERT KENT, B.S.CH.E., M.S.CH.E., PH.D., *Professor of Chemical Engineering; Nuclear Engineer, Engineering Experiment Station; Director, Nuclear Engineering Program* (1958), 1954

HAROLD NEELY KERR, A.B., M.LITT., PH.D., *Associate Professor of Sociology* (1959), 1946.

PAUL EAKLE KIDD, A.B., M.S., *Research Assistant, Bureau for Government Research* (1957). (Resigned September 1, 1960.)

HAROLD EDWARD KIDDER, B.S., M.S., PH.D., *Professor of Animal Science; Animal Husbandman, Agricultural Experiment Station* (1960), 1954.

GEORGE SMITH KING, JR., B.S., M.S., *Head Basketball Coach; Instructor in Physical Education* (1960), 1958.

CHARLES WILLIAM KINNAIRD, B.S., M.A., *Instructor in English* (1957).

LOIS JOANNE KINLEY, B.S., M.S., *Chairman of Biochemistry* (1960), 1957.

Joy Ann Kirtley Elliott,* B.S., *Assistant Extension Editor, Agricultural Extension Service* (1956). (Resigned June 6, 1959.)

Jean Marion Stein Klein, B.S.L.S., M.A., *Senior Catalogue Librarian* (1960).

Maurice Goodrich Klein, B.S.L., *Instructor* (part-time) *in Speech* (1960).

William Gene Klingberg, A.B., M.D., *Professor and Chairman of Pediatrics* (1960).

Gladys Wasmuth Knapp,* B.S.H.E., M.S., *Extension Home Management Specialist, Agricultural Extension Service* (1949), 1935.

John Oliver Knapp,* B.S.Agr., *Director of Agricultural Extension Service; Associate Dean, College of Agriculture, Forestry, and Home Economics* (1959), 1917.

Louise Middaugh Knight,* B.S., *Assistant State Leader, Home Demonstration Work, Agricultural Extension Service* (1956), 1952.

Ruth E. Knoch,* B.S., M.S., *Extension Clothing Specialist, Agricultural Extension Service* (1946), 1941.

Christian Burdick Koch, B.S.F., M.S.F., *Assistant Professor of Forestry; Assistant Forester, Agricultural Experiment Station* (1955), 1951.

Evelyn Maude Kocher, B.A., B.S.L.S., M.S.LS.., *Senior Catalogue Librarian* (1958).

Walter Allos Koehler, B.S.Ch.E., Ch.E., M.S., Ph.D., *Director of the Engineering Experiment Station; Acting Dean of the Graduate School* (1960), 1924.

Roy Milton Kottan, B.S., M.S., Ph.D., *Dean, College of Agriculture, Forestry, and Home Economics* (1958). (Resigned May 31, 1960.)

Reginald Frederick Krause, A.B., B.S., M.S., Ph.D., M.D., *Professor and Chairman of Biochemistry* (1951).

Frances Catherine Krauskopf, A.B., A.M., Ph.D., *Assistant Professor of History* (1956).

John Belshaw Kreer, B.S.E.E., M.S.E.E., Ph.D., *Professor of Electrical Engineering* (1960), 1959.

Helen Louise Kudla, B.S., *Head Nurse, University Health Service* (1957), 1950.

Elizabeth Kudriavetz, B.S., M.A., *Assistant Dean of Women* (1958). (Resigned June 30, 1960.)

Herbert Marvin Kulman, M.F., B.S., Ph.D., *Assistant Professor of Entomology; Assistant Entomologist, Agricultural Experiment Station* (1959).

Joann Gilbert Kulman, B.S.H.E., *Instructor* (part-time) *in Home Economics* (1959).

Margaret Cornelia Ladwig, A.B., Ed.M., Ph.D., *Placement Advisor* (1952), 1949.

Richard Willoughby Laird, B.S.E.M., M.S.E.M., *Acting Dean, School of Mines; Associate Professor of Mining Engineering* (1961), 1947.

Bernice Leil Lambert, *Social Director, Women's Residence Hall* (1959), 1952.

Oscar Doane Lambert, A.B., M.A., Ph.D., *Historical Records Specialist* (Retired) (1953), 1935. (Deceased June 1, 1959.)

George Cooke Landon, B.A., M.A., *Instructor in English* (1958). (Resigned May 31, 1960.)

Beatrice Brennaman Law, A.B., M.A., *Instructor in English* (1949).

John Joseph Lawless, P.H.D., M.D., *Director, University Health Service; Clinical Associate Professor of Medicine* (1946), 1935.

Charles Lester Lazzell, A.B., M.S., Ph.D., *Professor and Chairman of Chemistry* (1949), 1919.

Julian Gilbert Leach, B.S.A., M.S., Ph.D., *Professor of Plant Pathology; Plant Pathologist, Agricultural Experiment Station* (1960), 1938.

Marvin Robert Lee, B.S., M.A., *Instructor in Education; Teacher, University High School; Director, Workshop on Economic Education* (1956).

Victor Jacob Lemke, B.A., M.A., Ph.D., *Professor and Chairman of German* (1955), 1939.

Jessie Fortney Lemley,* B.S.H.E., *Associate State Leader, Home Demonstration Work, Agricultural Extension Service* (1951), 1942.

Robert C. Leonard, Capt., B.A., *Associate Professor of Air Science* (1956). (Resigned July 13, 1959.)

Nell Lanham Leonian, B.S.H.E., A.M., *Instructor in English; Associate Foreign Student Adviser* (1947), 1931.

Arnold David Levine, B.E.E., M.A., Ph.D., *Assistant Professor of Physics* (1957). (Resigned May 31, 1961.)

Mortimer Levine, B.A., A.M., Ph.D., *Assistant Professor of History* (1957), 1955.

Arthur E. Lewis, B.S., *Head Football Coach; Associate Professor of Physical Education* (1950). (Resigned June 30, 1960.)

HOWARD LEE LEWIS, B.S.J., *Assistant Director, Bureau of Information; Instructor in Journalism* (1959). (Resigned June 30, 1960.)

WALTER RICHARD LEWIS, B.S., M.S., PH.D., *Professor and Chairman of Agricultural Biochemistry and Nutrition; Agricultural Biochemist, Agricultural Experiment Station* (1951).

VIRGIL GREENE LILLY, A.B., M.A., PH.D., *Professor of Physiology; Physiologist, Agricultural Experiment Station* (1949), 1927.

HUGH ALEXANDER LINDSAY, B.S., M.S., PH.D., *Associate Professor of Physiology* (1960), 1955.

JENNIE MAE LININGER, A.B., *Teacher* (part-time) *University High School* (1960). (Resigned January 31, 1961.)

WILLIAM ALBERT LIPPOLD, B.S.E.E., *Instructor* (part-time) *in Electrical Engineering* (1960).

BETTIE YVONNE LIVERMORE, B.A., M.S.W., *Assistant Professor of Social Work* (1957). (Resigned May 31, 1961.)

J. EVERETT LONG, A.B., A.M., *Registrar of the University; Chairman, Committee on Admissions* (1945), 1929.

THOMAS RICHARD LONG, B.S.M.E., *Instructor in Mechanical Engineering* (1958).

JAMES RAY LONGENETT, SFC, *Assistant Supply Sergeant, Military Science* (1958). (Resigned August 17, 1959.)

ALFRED DELBERT LONGHOUSE, B.S., M.S., PH.D., *Professor and Chairman of Agricultural Engineering; Agricultural Engineer, Agricultural Experiment Station* (1945), 1938.

WILLARD DEAN LORENSEN, B.A., LL.B., LL.M., *Assistant Professor of Law* (1959).

FRANK EDELL LORINCE, JR., B.M., M.M., *Assistant Professor of Music; Acting Chairman, Theory and Composition* (1960), 1950.

FREDERICK JACKSON LOTSPEICH, B.S., M.S., PH.D., *Associate Professor of Biochemistry* (1959), 1956.

WILMA JEAN LOUDIN, B.S., M.S., *Instructor in Mathematics* (1960), 1955.

BETHOLENE FRANCES LOVE, B.S., M.S., *Assistant Professor of Pathology; Technical Director, Medical Technology Curriculum* (1958), 1955.

EDWARD C. LOWE, JR., B.S., M.S., *Associate Director of Mountainlair* (1957), 1956. (Resigned September 30, 1959.)

VERNON FRED LOWENBERG, A.B., M.S., *Instructor in Mathematics* (1953).

JACK ALEXANDER LUCAS, A.B., M.A., *Instructor in Sociology* (1956). Resigned May 31, 1961.)

JOHN LUCHOK, B.S.J., *University and Agricultural Experiment Station Editor* (1953), 1950.

WAYNE WESLEY LUCHSINGER, B.S., M.S., PH.D., *Associate Professor of Biochemistry; Associate Biochemist, Agricultural Experiment Station* (1960).

JOHN CHARLES LUDLUM, B.S., M.S., PH.D., *Professor of Geology* (1956), 1946.

MARLYN EDWARD LUGAR, A.B., LL.B., J.S.D., *Professor of Law* (1951), 1939

VIRGINIA GILMORE MADIGAN LUIKART, B.S., *Circulation Assistant, Library* (1951), 1930.

ANN LOUISE LYNCH, B.A., *Medical Record Librarian* (1960).

JOHN FRANCIS LYNCH, B.S.ED., B.S.E.E., *Instructor* (part-time) *in Electrical Engineering* (1958). (Resigned May 31, 1959.)

DAVID JANES LYTTLE, B.A., M.A., M.F.A., *Instructor in English* (1955). (Resigned May 31, 1961.)

JAMES LEONARD MCBEE, JR., B.S., M.S., PH.D., *Assistant Professor of Animal Science; Assistant Animal Husbandman, Agricultural Experiment Station* (1959).

ARTHUR COOK MCBRIDE, A.B., A.M., DOCTEUR DE L'UNIVERSITE DE BORDEAUX, *Professor of Romance Languages* (1950), 1926.

WILLIAM ALFRED MCCAULEY, A.B., M.A., *Coordinator, Rehabilitation Counselor Training* (1955). (Resigned January 1, 1960.)

ALAN HARTMAN MCCLAIN, B.E.M., *Petroleum Research Engineer, Engineering Experiment Station* (1955). (Deceased May 17, 1960.)

FRANCIS HILL MCCLUNG, B.S., M.S., *Assistant Professor of Education, University Extension* (1956).

JOSEPH DWIGHT MCCLUNG, B.S.E.E., B.S.E.M., M.S.E.M., *Assistant Professor of Mining Engineering* (1953), 1941.

ERNIE BEVAN MCCUE, A.B., M.A., *Director of University Extension; Director of Labor Extension* (1952), 1947.

EMMA WILLIAMSON MCCUTCHEON, *Social Director, Arnold Residence Hall* (1957), 1955.

Mary Adeline McDaniel, A.B., M.A., *Administrative Assistant, Office of the President* (1957), 1941.

Elizabeth Adams McEnney, B.M., M.M., *Assistant Professor of Music* (1949).

Margaret May Grass McGill, A.B., *Librarian, University High School* (1958), 1957. (Resigned May 31, 1960.)

Bernard Ronald McGregor, B.S., M.F.A., *Assistant Professor of Music* (1950), 1935.

Ralph Troy McGuire, SFC, *Administrative Assistant in Military Science* (1957). (Resigned September 1, 1959.)

Theodore Clinton McIlvaine, Ph.D., *Professor Emeritus of Agronomy* (1950), 1918. (Deceased August 10, 1959.)

Kenneth Dale McIntosh, B.S., M.S., *Assistant Agricultural Economist, Agricultural Experiment Station* (1957).

Frederick Romer McKeehan, A.B., M.D., *Physician, University Health Service* (1958). (Resigned September 30, 1960.)

Lois Jane McKinney, B.S., *Assistant to Director of Personnel* (1960).

George Aiken McLaren, B.S., M.S., Ph.D., *Professor of Agricultural Biochemistry; Agricultural Biochemist, Agricultural Experiment Station* (1959), 1955.

Earl Glen McLaughlin, A.B., M.A., *Instructor in Education* (1959). (Resigned June 18, 1960.)

Shirley McLaughlin, B.A., M.A., *Instructor in English* (1958), 1955. (Resigned June 1, 1959.)

William H. McMillion, B.S., *Assistant Comptroller* (1958), 1952.

Ronald Bruce McPherson, B.S.C.E., *Instructor* (part-time) *in Civil Engineering* (1960).

Robert F. McWhorter, B.S., M.S., *Director of Mountainlair* (1959).

Denis William Herbert MacDowell, B.S., M.S., Ph.D., *Assistant Professor of Chemistry* (1959).

William Henry MacKenzie, *Instructor in Mining Extension* (1945).

Irvin Stanford Maddy, A.B., M.S., *Teacher* (part-time) *University High School* (1959). (Resigned May 30, 1960.)

Sam Madia, B.S., M.A., *Instructor in Education; Teacher, University High School* (1955).

John Friend Mahoney, B.S., M.S., Ph.D., *Assistant Professor of Chemical Engineering* (1960).

Joseph Francis Maiocco, Jr., A.B., *Teacher* (part-time) *University High School* (1960). (Resigned May 30, 1960.)

Dorothy Mae Major, R.N., B.S., M.A., Ed.D., *Dean and Professor of Nursing* (1960).

Oliver Blythe Manning, B.M., M.M., *Associate Professor of Music* (1957), 1950. (Resigned September 13, 1960.)

Warren Francis Manning, A.B., A.M., Ph.D., *Professor of Romance Languages; Committee Chairman of Romance Languages* (1952), 1928.

Martin Matheny Mansperger, B.S.Ed., M.A., *Professor of Education, University Extension* (1952).

Ray Stanley Marsh, B.S.Agr., A.M., *Professor of Horticulture; Horticulturist, Agricultural Experiment Station* (1960), 1936.

Glenn Fayette Martin, *Instructor in Industrial Engineering* (1940).

John Hope Martin, B.S.E.E., M.S.E.E., *Assistant Professor of Electrical Engineering* (1960), 1957.

William Gilbert Martin, B.S., M.S., *Instructor in Poultry Science; Assistant in Poultry Husbandry, Agricultural Experiment Station* (1960), 1958.

Oneita Frances Mascioli, *Central Service Supervisor, Medical Center* (1960).

Carmine Charles Mascoli, B.S., M.S., Ph.D., *Assistant Professor of Microbiology* (1960).

S. Samuel Maurice, B.A., M.S., Hlth.Saf.Dirs., *Assistant Professor of Physical Education; Director of Intramural Activities* (1958).

Robert Shriver Maust, B.S., *Teaching Assistant in Commerce* (1959). (Resigned September 1, 1960.)

George Ralph Maxwell, B.S., M.D., *Clinical Associate Professor of Medicine* (1936), 1924.

Tobias Wagner Maynard, Jr., *Assistant Professor of Air Science* (1959). (Resigned September 15, 1960.)

Charles Robert Means, Capt., B.S., *Associate Professor of Military Science; Rifle Team Coach* (1959).

Harold Mendelsohn, B.S.S., M.S.W., *Consultant on Rehabilitation Training, Department of Social Work* (1956), 1953. (Resigned May 31, 1959.)

Dorothy Ann Mero, R.N., *Nurse, University Health Service* (1958). (Resigned May 31, 1959.)
Mary Frances Mertz, B.S., M.A., *Instructor in English* (1960).
Gerald Clem Michael, B.A., M.S., *Instructor in Physics* (1957). (Resigned September 1, 1960.)
Denver Franklin Milam, A.B., B.S., M.D., *Associate Professor of Surgery and Chairman of Urology* (1960).
Betty Louise Miller, B.S.Ch.E., M.S., *Instructor in Mathematics* (1957).
Delmas Ferguson Miller, A.B., M.S., Ph.D., *Professor of Education; Chairman, Secondary Education; Director, University High School* (1958), 1949.
Floyd Waldo Miller, A.B., B.S.L.S., M.A., M.S.L.S., *Chief Reference Librarian* (1958).
Martha Louise Miller, B.S.N., M.S.N.Ed., *Assistant Professor of Nursing* (1960).
Webster Earl Miller, A.B., M.A., *Instructor in Integrated Studies* (1956), 1946. (Deceased July 23, 1959.)
Susan Charlotte Millis, B.S., M.S., *Instructor in Home Economics* (1960).
Jack Gillespie Milne, Col., B.S., *Professor of Air Science* (1958).
William Sherman Minor, A.B., D.B., *Associate Professor of Philosophy* (1946).
Michael K. Mischaikow, M.A., *Assistant Professor of Economics* (1960).
Charlie Robertson Mitchell, B.S.C.E., *Instructor in Civil Engineering* (1958).
Kathleen Ayers Mitchell, Std.Norm., *Social Director, Women's Hall* (1942), 1940.
Ralph Gerald Mitchell, B.S., M.S., Ph.D., *Associate Professor of Dairy Science; Associate Dairy Scientist, Agricultural Experiment Station* (1960), 1957.
Kenneth Edward Moats, S/1c *Instructor in Military Science* (1955). (Resigned September 1, 1960.)
William E. Mockler, M.A., Ph.D., *Associate Professor of English* (1957), 1938. (Resigned September 1, 1960.)
Charles Ernest Modlin, B.A., M.A., *Instructor in English* (1960).
Fred A. Molby, Ph.D., *Professor Emeritus of Physics* (1948), 1920.
Ellis Edwin Mood, *Flight Instructor, Aero-Space Engineering* (1956).
Geraldine Meaders Moncrief, B.S.H.E., *Instructor in Home Economics* (1958). (Resigned May 31, 1959.)
James S. Moncrief, Jr., Col., B.S., *Professor of Military Science* (1956). (Resigned May 31, 1959.)
Byron Wayne Moore,* B.S.Agr., *Associate Extension Poultryman, Agricultural Extension Service* (1955), 1947.
Dane Wood Moore, Jr., B.S., M.S., *Chief Technologist in Medical Microbiology* (1960), 1954.
Ethel C. Montiegel, B.A., M.S., *Instructor in Biology* (1956).
Walter Harrison Moran, Jr., B.A., B.S., M.D., *Instructor in Surgery and Chief Resident, University Hospital* (1960).
Bernice Carolyn Morgan, R.N., *Assistant Operating Room Supervisor, University Hospital* (1960).
Arthur Lewis Morris, Jr., A.B., *Financial Secretary, Office of the Comptroller* (1960).
Clyde McMahon Morris, B.S., M.S., Ph.D., *Executive Secretary, West Virginia School Boards Association; Assistant Professor of Education Research* (1959).
Joseph L. Morris,* B.S., M.Agr., *District Agent, Agricultural Extension Service* (1955), 1954.
Martha Lorene Morris, R.N., *Nurse, University Health Service Infirmary* (1956). (Resigned June 25, 1960.)
Samuel John Morris, M.D., *Professor Emeritus of Physical Education* (1955), 1912.
William O. Morris, A.B., LL.B., *Professor of Law* (1960), 1958.
Richard Harvey Morrison, B.S., M.S., *Instructor in Chemistry* (1959).
Victor Eugene Morrone, B.S., M.Ed., *Assistant Professor of Education* (1957). (Resigned September 1, 1959.)
Joe Francis Moss, A.B., M.A., *Instructor in Art* (1960).
Mildred Iona Moyers, A.M., M.A., M.S.L.S., *Chief Acquisition Librarian* (1959), 1955.
Caroline Turton Mudd, B.S.Ed., M.S.W., *Assistant Professor and Director of Field Work in Social Work* (1957).
Beth Palmer Muffly, B.S., M.S., *Assistant Professor* (Retired) *of Home Economics* (1957), 1927.
Foster Glenn Mullenax,* B.S.Agr., *Associate Extension Editor, Agricultural Extension Service* (1953), 1950.
Robert Ferguson Munn, A.B., M.A., *Director of University Libraries* (1957), 1952.

Frances Rebecca Murphy, B.S., in Med. Tech., *Tissue Technologist in Pathology* (1956). (Resigned February 28, 1957.)
Chester William Muth, B.S., Ph.D., *Associate Professor of Chemistry* (1956), 1949.
James Stockert Myer, B.A., M.A., *Instructor in Psychology* (1957), 1956. (Resigned September 1, 1960.)
Galen Sheets Myers,* B.S.Agr., M.S.Hort., *District Agent, Agricultural Extension Service* (1952), 1935.
Leroy Orner Myers, B.A., M.A., *Assistant Professor of Geography* (1948).
Richard George Nadeau, B.S., M.S., *Assistant in Agricultural Biochemistry* (1958). (Resigned August 31, 1959.)
Richard Anthony Naldrett, Maj., B.S., *Associate Professor of Air Science* (1956). (Resigned July 6, 1959.)
Lawrence E. Nanns, B.S.Ed., M.Ed., *Instructor* (part-time) *in Education* (1960).
Oliver Meader Neal, Jr., B.S., Ph.D., *Associate Professor of Horticulture; Associate Horticulturist, Agricultural Experiment Station* (1959), 1942.
Charles David Neel, B.A., M.A., *Instructor in Speech; Business and Publicity Manager and Director, University Theatre* (1960), 1954.
Elizabeth Brownfield Neel, *Administrative Assistant, Library* (1949), 1936.
Robert Hudkins Neff, B.S., M.S., *Instructor in Education* (1957), 1955.
Elmer Joseph Neidermeyer, Maj., B.S., *Associate Professor of Military Science* (1959).
Stanley John Nels, B.S.J., *Assistant University and Agricultural Experiment Station Editor; Instructor* (part-time) *in Journalism* (1959), 1951.
Daniel James Nelson, B.S., M.S., Ph.D., *Assistant Professor of Biology* (1957). (Resigned May 4, 1959.)
George Humphrey Nelson, A.B., M.S., Ph.D., *Instructor in Biochemistry* (1958).
Nell Nesbitt, A.M., *Associate Professor Emeritus of Home Economics* (1942), 1923. (Deceased August 31, 1960.)
Ernest Joseph Nesius, B.S.A., M.S.A., Ph.D., *Dean, College of Agriculture, Forestry, and Home Economics* (1960).
Paul Emmett Nesselroad, B.S., M.S., *Assistant Agricultural Economist in Farm Management, Agricultural Experiment Station* (1959), 1954. (On Leave October 1, 1960-June 30, 1961.)
Richard Leo Newdick, B.A., M.A., *Instructor in Speech* (1958).
Joseph Newhouse, B.S., M.S., *Assistant Professor of Economics* (1957), 1955.
Henry William Newman, A.B., M.A., *Instructor in Integrated Studies and English* (1955). (Resigned September 1, 1960.)
Frederick Albright Neyhart, B.S., M.A., *Instructor in Speech; Director of Intercollegiate Forensics* (1958).
David Creel Nichols, II, B.S.J., *Assistant Director, Bureau of Public Information; Assistant Director, University News Service* (1960).
E. Grant Nine, A.B., M.S., *Instructor in Education; Principal, University High School* (1960), 1956.
Wilda Hoard Noel, B.S.H.E., *Executive Housekeeper and Dietitian, Arnold Residence Hall* (1956), 1954.
Ruth Douglas Noer, B.S., M.S., *Professor of Home Economics* (1960), 1925.
Charles Norman, B.S., M.S., Ph.D., *Associate Professor of Biology and Dairy Science; Associate Biologist and Dairy Scientist, Agricultural Experiment Station* (1957), 1953.
William Laurus Northern,* B.S., M.Agr., *Extension Dairyman, Agricultural Extension Service* (1956), 1951.
David Wilmarth Northup, A.B., A.M., Ph.D., *Professor and Chairman of Physiology* (1949), 1935.
Robert Julian Nottingham, *Clinical Assistant Professor of Pediatrics* (1960), 1958.
Honora MacArthur Noyes, B.A., M.Ed., Ed.D., *Assistant Professor of Secretarial Studies* (1957).
William Ermal Nutter, B.S., M.S., *Assistant in Agricultural Biochemistry, Agricultural Experiment Station* (1956), 1953. (Resigned January 31, 1959.)
Frank Dennis O'Connell, B.S., M.S., Ph.D., *Assistant Professor of Pharmacognosy* (1957).
Bernard O'Donnell, B.S., M.S., *Instructor in English* (1957). (Resigned July 17, 1959.)
James Pierce O'Leary, Jr., B.M.E., *Instructor in Mechanical Engineering* (1960).
Margaret Eloise Olexa, R.N., B.S., *Nurse, University Infirmary* (1960).

NORMAN OLAF OLSON, D.V.M., *Professor of Veterinary Science; Veterinarian, Agricultural* Experiment Station (1948).

JOSEPHINE ESTELLE O'MALLEY, R.N., *Nurse, University Infirmary* (1960).

ANGELO JOSEPH ORLANDI, B.A., M.A., *Teacher, University High School* (1959).

EDWIN ORR, B.S.M.E., *Superintendent, Buildings and Grounds* (1954), 1949.

CARRIE JEANETTE OSWALD, B.S., M.A., *Associate Professor and Chairman of Nursing Education* (1959), 1949. (Deceased December 16, 1960.)

JAMES EDWIN OVERBERGER, B.S., D.D.S., M.S., *Assistant Professor of Dental Materials* (1957).

ROBERT ELLIS OWNLEY, B.E.E., B.S., *Instructor in Electrical Engineering* (1956). (Resigned May 31, 1959.)

EDWARD ANTHONY PACOFSKY, B.S., M.S., *Instructor in Chemistry* (1957). (Resigned May 31, 1960.)

MARY NADINE PAGE, M.A., *Assistant Professor of English* (1946), 1925.

JEROME FOREST PARMER, B.S.M.E., M.S.M.E., *Assistant Professor of Mechanical Engineering* (1960), 1957.

DICKSON WARD PARSONS, A.B., M.S., PH.D., *Professor Emeritus of Agricultural Education* (1951), 1923.

HOMER PATRICK, B.S., M.A., PH.D., *Professor and Chairman of Poultry Science; Poultry Husbandman, Agricultural Experiment Station* (1957).

FRANK MORGAN PATTERSON, B.A., M.A., *Instructor in English* (1957). (Resigned May 31, 1959.)

CHARLES EDWIN PATTON, A.M., *Professor and Chairman of Art* (1951), 1939.

ARMINE DEANE PAUL, B.S., PH.D., *Assistant Professor of Chemistry* (1955).

HELEN MARY PAVLECH, M.A., B.S., *Assistant in Microbiology* (1954), 1943.

ARTHUR STEVEN PAVLOVIC, B.E.E., M.S., PH.D., *Assistant Professor of Physics* (1959).

ROGER WATERMAN PEASE, B.S., M.S., *Assistant Agricultural Economist, Agricultural Experiment Station* (1955), 1947.

FRANK PELUSO, B.S.ED., M.A., ED.D., *Associate Professor of Education* (1957), 1950. (Resigned September 1, 1959.)

KENNETH EARL PENROD, B.S., PH.D., *Vice President-Medical Center; Professor of Physiology* (1959).

W. CLEMENT PERCIVAL, B.S., M.S., PH.D., *Assistant Dean, College of Agriculture, Forestry, and Home Economics; Director, Division of Forestry; Professor of Forestry; Forester, Agricultural Experiment Station* (1959), 1934.

VIRGINIA TAYLOR PERRY, A.B., M.A., M.S.L.S., *Chief Circulation Librarian* (1954), 1946.

JANE RHODES PESTUN, B.M., M.M., *Instructor in Music* (1945), 1942.

ILAND DEE PETERS, A.B., M.S., *Associate Professor of Mathematics* (1957), 1941.

MASON MARCUS PETERSON, B.S.E.E., *Associate Professor of Electrical Engineering* (1948).

JO ANN WATKINS PETERSON, *Librarian, Bureau for Government Research* (1960), 1957.

HELEN PURINTON PETTIGREW, B.A., M.A., PH.D., *Associate Professor of English* (1955), 1921.

CLIFFORD NORMENT PFELTZ, A.B., ED.M., ED.D., *Assistant Professor of Education* (1959).

GEORGE RICHARD PHILLIPS, *Photographer, Bureau of Public Information* (1954).

JAMES EDWARD PHILLIPS, A.B., D.D.S., *Instructor in Oral Diagnosis* (1959).

ROSS ALONZO PHILLIPS, B.S.AGR., B.S.AGR.ENG., *Assistant Professor of Agricultural Engineering; Assistant Agricultural Engineer, Agricultural Experiment Station* (1955).

BYRD LEA PICKENS, A.B., M.A., *Assistant Circulation Librarian* (Retired) (1951), 1930.

JUSTUS COURTLAND PICKETT, B.S., M.D., *Clinical Professor of Surgery and Chairman of Orthopedic Survery* (1960).

WILLIAM BRYAN PIERCE, JR., MAJ., B.S., M.L., *Instructor in Air Science* (1959).

GORDON MARSHALL PITTS, B.A., M.A., PH.D., *Assistant Professor of English* (1960).

HELEN LESTER PLANTS, B.S.C.E., M.S.C.E., *Assistant Professor of Theoretical and Applied Mechanics* (1956), 1947.

BERTA GERTRUD PLAUT, B.A., B.S.L.S., *Senior Catalogue Librarian* (1953).

GEORGE GORDON POHLMAN, B.S., M.S., PH.D., *Professor and Chairman of Agronomy and Genetics; Agronomist, Agricultural Experiment Station* (1938), 1930.

STANLEY ANTHONY POLEWAY, D.D.S., *Professor and Chairman of Pedodontics* (1959).

PETER POPOVICH, A.B., B.S., M.S., *Associate Professor of Chemistry; Premedical Adviser* (1960), 1946.

JOHN JOSEPH PORTER, B.S., *Assistant Manager, Medical Center Book Store* (1960), 1950.

IRA DEWARD PORTERFIELD, B.S., M.S., PH.D., *Professor and Chairman of Dairy Science; Dairy Scientist, Agricultural Experiment Station* (1956), 1946.

Donald Charles Portnoy, B.S., M.A., *Instructor in Music* (1959).

Eldon E. Posey, B.S., M.A., Ph.D., *Assistant Professor of Mathematics* (1954). (Resigned June 30, 1959.)

Enid Joan Pallant Portnoy, B.S., M.A., *Instructor in Speech* (1958).

Oleta Reed Post, B.S., M.A., *Instructor in Education; Teacher, University High School* (1953).

James Stanley Poundstone, *Instructor in Mining Extension* (1924).

Blanche Elizabeth Price, A.B., M.A., *Assistant Professor of Home Economics; Manager, University Cafeteria* (1945). (Retired July 1, 1959.)

Nancy Gibson Price, A.B., M.A., *Instructor in English* (1960).

Paul Holland Price, A.B., M.S., Ph.D., *Director of Geological Survey and State Geologist; Professor of Geology* (1960), 1930.

Cecil Benjamin Pride, A.B., M.D., *Clinical Professor of Surgery* (1960), 1942.

Cletis Graden Pride, B.S.J., *Associate Director, Bureau of Public Information; Director, University News Service* (1960), 1953.

Maynard Prince Pride, A.B., M.D., *Clinical Assistant Professor of Surgery* (1960), 1949.

Richard Lee Prillaman, Capt., B.S., *Assistant Professor of Military Science* (1960).

Bertha Browning Purinton, A.B., A.M., *Assistant Registrar* (Retired) (1949), 1919.

John Pushkarsh, Jr., A.B., A.M., *Instructor in Russian* (1955).

Eliza Jane Queen, *Social Director, Terrace Residence Hall* (1960).

David Oliver Quinn,* A.B., M.S., *Extension Plant Pathologist and Entomologist, Agricultural Extension Service* (1956), 1953.

John Thomas Raese, B.S., *Instructor in Agronomy; Assistant in Agronomy, Agricultural Experiment Station* (1958). (Resigned September 30, 1960.)

Allen Huff Rakes, B.S., M.S., Ph.D., *Assistant Professor of Dairy Science; Assistant Dairy Scientist, Agricultural Experiment Station* (1960).

Betty Lou Ramsey,* B.S.H.E., M.S., *Extension Home Management and Home Furnishings Specialist, Agricultural Extension Service* (1960), 1956.

Kenneth Vincent Randolph, B.S., D.D.S., *Dean, School of Dentistry* (1958), 1957.

Robert Edward Rankin, B.A., M.A., Ph.D., *Assistant Professor of Psychology* (1957), 1954.

Ralph Earl Redford, *Instructor in Air Science* (1957). (Resigned September 15, 1960.)

Robert Newton Reece, A.B., M.A., *Instructor in Geology* (1957). (Resigned August 31, 1959.)

Elizabeth Frost Reed, A.M., *Assistant Professor Emeritus of English* (1953), 1919.

James Cornelius Reed, *Supervisor of Purchasing and Inventory, Comptroller's Office; Manager, College Park* (1953), 1946.

Perley Isaac Reed, Ph.B., A.B., A.M., Ph.D., *Director and Professor Emeritus of Journalism* (1958), 1920.

William Woodworth Reed, Jr., Maj., B.A., *Associate Professor of Military Science* (1959).

Abert Moore Reese, A.B., Ph.D., *Professor Emeritus of Zoology* (1946), 1907.

Charles David Reese, B.S., M.S., *Instructor in Agronomy; Assistant in Agronomy, Agricultural Experiment Station* (1960).

Florence Katherine Reese, A.B., M.A., B.S.L.S., *Associate Professor and Chairman of Library Science* (1957), 1935.

Robert Leslie Reid, B.Sc., B.S.Agr., Ph.D., *Assistant Professor of Agricultural Biochemistry; Assistant Biochemist, Agricultural Experiment Station* (1960), 1957.

William Henry Reid, B.S.F., M.F., *Associate Professor of Forest Utilization; Associate Forester, Agricultural Experiment Station* (1951).

Janet Elizabeth Remington, B.M., *Instructor* (part-time) *in Music* (1954).

Pauline Dawson Renforth, R.N., *Assistant Relief and Night Supervisor, University Hospital* (1960).

Robert Summers Reppert, B.S., *Geologist, Engineering Experiment Station* (1959).

Harvey Nixon Rexroad, B.S.E.E., M.S., Ph.D., *Associate Professor of Physics* (1957), 1947.

Randall William Reyer, A.B., M.A., Ph.D., *Associate Professor of Microanatomy and Organology* (1957).

John Marvin Reynolds, B.S., D.D.S., *Assistant Professor of Crown and Bridge Dentistry* (1959).

Michael Morgan Reynolds, A.B., M.S., M.A., *Assistant Director of Libraries; Instructor in Library Science* (1957).

JACKSON CLIVE RHUDY, B.S., M.S.W., *Assistant Professor of Social Work* (1959). (Resigned September 1, 1960.)

JOHN HARRISON RIETZ, D.V.M., M.Sc., *Professor Emeritus of Animal Pathology* (1948), 1927.

LEWIS BROADBENT RINGER, B.S., *Instructor in Physical Education; Swimming Coach* (1958).

CARL LEO ROBERTS, *Equipment Custodian, Athletic Department* (1947).

ELIZABETH ANN ROBERTS,* B.S.H.E., M.S., *Extension Specialist in Foods and Nutrition, Agricultural Extension Service* (1956), 1953.

EVAN OWEN ROBERTS, A.B., M.A., PH.D., *Professor of Economics and Marketing* (1953), 1939.

LOUISE BOGGESS ROBERTS, B.S., M.A., *Instructor in Education; Teacher, University High School* (1937), 1928. (Retired January 31, 1960.)

NARCISSUS ROBERTS, JR., B.S., M.A., *Psychometrist in Philosophy and Psychology* (1959). (Resigned May 31, 1960.)

WILLIAM EDWARD ROBERTS, COL., B.S., *Professor of Military Science* (1959).

DIANA AMOSS ROBINSON, A.B., PH.D., *Assistant Professor of Home Economics* (1959). (Resigned January 31, 1960.)

J. BEN ROBINSON, D.D.S. *Dean Emeritus, School of Dentistry* (1958), 1953.

ROBERT LEO ROBINSON, A.B., M.A., PH.D., *Instructor in Pharmacology* (1959).

RUTH ELEANOR ROBINSON, A.B., M.A., *Manager, University Book Store* (1944), 1939.

WALTER HARRISON ROCKENSTEIN, A.B., S.T.B., S.T.M., *Instructor in Speech* (1956).

IRA ERRETT RODGERS, A.B., *Associate Professor of Physical Education; Golf Coach* (1950).

EARL GERALD ROGERS, B.A., *Superintendent of Custodial Services, Buildings and Grounds* (1960).

KATE MEREDITH ROLLER, A.B., M.A., *Instructor Emeritus in Education; Teacher, University High School* (1955), 1927.

RAYMOND SYDNEY ROLLINGS, LT.COL., B.C.E., M.C.E., *Director of Education Air Force R.O.T.C.* (1959).

STANLEY EDWARD ROMANOSKI, B.S., M.S., *Head Coach, Cross-Country and Track; Instructor in Physical Education* (1957).

LOIS ELIZABETH ROSIER, R.N., *Head Nurse, University Hospital Operating Room* (1960).

IRENE BROWNLEE ROSS, B.S., *Dietitian, Terrace Hall* (1957), 1945.

MARTIN R. ROSS, B.A., M.S., PH.D., *Assistant Professor of Bacteriology* (1957). (Resigned July 15, 1958.)

WILLIAM ROBERT ROSS, M.A., *Assistant Professor of Political Science* (1948), 1939.

ERNEST EZIO ROSSI, B.A., M.LITT., *Visiting Assistant Professor of Political Science* (1958). (Resigned May 31, 1961.)

KATHLEEN GUERRIERI ROUSSEAU, B.M., M.A., *Instructor in English* (1960).

EUGENE E. RULEY, GEOL.E., M.S.GEOL.E., *Petroleum Research Engineer, Engineering Experiment Station* (1960).

WILLIAM ERVIN RUMBACH, A.B., M.S., *Instructor in Agronomy; Assistant in Agronomy, Agricultural Experiment Station* (1957). (Resigned September 15, 1959.)

CHARLES MICHAEL RUNNER, *Stationary Engineer* (Retired) *in Mechanical Engineering* (1950), 1919.

HARTER MILLER RUPERT, JR., B.S.C.E., *Instructor in Civil Engineering* (1957).

EVERETT ROY RUSSELL, SGT., *Instructor in Military Science* (1959).

RICHARD NEIL RYAN, B.S., *Teacher, University High School* (1959).

AARON SACKS, A.B., M.S., *Lecturer* (part-time) *in Social Group Work* (1956).

SABRI SAMI, B.SC., M.S., PH.D., *Professor of Structural Engineering; Director of Graduate Studies and Research in Civil Engineering* (1958).

MABEL KERSEY SAMUEL, B.S., *Dietitian and Executive Housekeeper, Men's Residence Hall* (1946).

DOROTHY JOAN SAMMONS, A.B., M.S.W., *Associate in Rehabilitation Social Work* (1956). (Resigned August 31, 1959.)

ERNEST JAMES SANDY, B.S., *Assistant Professor of Mining Engineering* (1957), 1946.

THELMA CARLOW SANDY, B.S.N.ED., M.LITT., *Assistant Professor* (part-time) *of Nursing Education* (1960), 1959.

DORIS JUNE SANTEE, A.B., M.A., *Instructor in Education* (1957). (Resigned May 31, 1958.)

JOHN PATRICK SANTRY, CAPT., B.S., *Associate Professor of Military Science* (1959).

DENVER GLENDAIRE SASSER, A.B., A.M., *Instructor in English* (1958). (Resigned July 13, 1959.)

VIKEN SASSOUNI, M.SC., D.SC., D.D.S., D.SURGEON, *Professor and Chairman of Orthodontics* (1960).

ROBERT EARL SAUSEN, D.D.S., M.S.D., *Professor and Chairman of Operative Dentistry* (1958).

LEROY HALLOWELL SAXE, JR., B.S., M.A., PH.D., *Associate Professor of Pharmacology* (1958), 1955.

GREEK SAYRE, A.B., M.A., *Assistant Professor Emeritus of English* (1957), 1918.

FRANK JOSEPH SCALISE, B.S., M.S., *Teacher, University High School* (1958). (Resigned January 31, 1959.)

GEORGE ETHERIDGE SCHAFER, B.M., M.M., PH.D., *Associate Professor of Music; Chairman of Graduate Studies* (1960), 1954.

JAMES HAMILTON SCHAUB, B.S.C.E., S.M.C.E., PH.D., *Professor and Chairman of Civil Engineering* (1960).

FRED APPLETON SCHAUS, B.S., M.S., *Head Basketball Coach; Assistant Professor of Physical Education and Athletics* (1959), 1954. (Resigned August 31, 1960.)

JOHN GUSTAVE SCHERLACHER, B.S., M.ED., *Professor and Chairman of Recreation; State Recreation Consultant* (1960), 1947.

BERNARD BURTON SCHLANGER, B.A., M.A., PH.D., *Professor of Speech; Director, Speech and Hearing Clinic* (1959), 1958.

LUCILLE ANNE SCHMIEDER, A.B., M.S., *Instructor in Biology* (1955), 1951. (Resigned July 15, 1959.)

OSCAR EDMUND SCHUBERT, B.S.AGR., M.S., PH.D., *Associate Professor of Horticulture; Associate Horticulturist, Agricultural Experiment Station* (1953), 1949.

WALTER DONALD SCHULTZE, B.A., M.S., PH.D., *Assistant Professor of Bacteriology; Assistant Bacteriologist, Agricultural Experiment Station* (1959), 1958.

ALBERT JOHN SCHWING, JR., SFC, *Chief Clerk, U. S. Army R.O.T.C. Instructor Group* (1960).

GRACE DORIS SCOTT, A.B., M.A., ED.D., *Associate Professor* (Retired) *of Education* (1954), 1950. (Retired February 1, 1960.)

JANE CLAIRE SCOTT, B.M., A.B., M.MUS., *Assistant Professor of Music Education* (1958).

RAYMER EGBERT SEAMAN, *Instructor Emeritus in Foundry Practice and Woodworking* (1945), 1912.

JOHN J. S. SEBASTIAN, CH.E., D.SC., *Visiting Lecturer in Chemical Engineering* (1948).

RALPH WILLIAM SEEGER, A.B., *Engineer-Geologist, Engineering Experiment Station* (1957).

CHARLES BORUM SEIBERT, B.S.E.E., M.S.E.E., *Professor of Electrical Engineering* (1951), 1934.

LEON ZEE SELTZER, PH.D., B.S.E., *Professor and Chairman of Aero-Space Engineering; Aero-Space Engineer, Engineering Experiment Station* (1949).

JOHN SEMON, A.B., M.S., *Associate Professor of Physical Education; Chairman, Professional Curriculum for Men* (1955), 1943.

MARY ALICE SEMON, B.S., M.S., *Instructor* (part-time) *in Education; Teacher* (part-time) *University High School* (1958), 1938. (Resigned June 1, 1959.)

SANTINO THOMAS SERPENTO, B.S., M.A., *Assistant Director of University Personnel Department* (1960).

HUBERT ADAAMS SHAFFER, B.S., M.D., *Consulting Radiologist, University Health Service* (1949).

JAMES N. SHAFER, A.B., M.A., PH.D., *Associate Professor of Psychology* (1959), 1953.

RAYMOND EDWIN SHAFER, B.S.I.E., M.S.I.E., *Professor and Chairman of Industrial Engineering* (1957), 1949.

RUSSELL SPURGEON SHAHAN, JR., B.M., *Teacher, University High School* (1952). (Resigned June 1, 1959.)

HAROLD JOSEPH SHAMBERGER, A.B., M.P.A., *Assistant to the President* (1960), 1949.

ANNE WAGONER SHARPE, B.S. MED. TECH., *Tissue Technologist in Pathology* (1957).

GEORGE SHARPE,* B.S.AGR., M.S., *Extension Soil Conservationist* (1944), 1929.

CHARLES JACK SHEEHAN, B.S., *Veterans Coordinator and Coordinator of Scholarships* (1957), 1955.

PAUL KENNETH SHEFSIEK, B.S., M.S., *Instructor* (part-time) *in Physics* (1958). (Resigned January 15, 1960.)

DAMON CHARLES SHELTON, B.S.A., M.S., PH.D., *Associate Professor of Biochemistry* (1960), 1953.

VERNON MORRIS SHEPPARD, JR.,* B.S., M.S., *Extension Economist, Agricultural Extension Service* (1958).

CHARLES WILLIAM SHETLER, B.A., M.A., *Curator, West Virginia Collection, University Library* (1950).

JOHN EDWARD SHOCKEY, B.S., *Instructor in Physical Education; Freshman Football Coach* (1960), 1950.

WILSON PORTER SHORTRIDGE, A.B., A.M., PH.D., *Professor Emeritus of History* (1951), 1922.

JAMES ROBERT SHUMAKER, B.S., M.S., *Instructor in Horticulture; Assistant in Horticulture, Agricultural Experiment Station* (1958).

FRED B. SILBERSTEIN, B.A., M.A., PH.D., *Assistant Professor of Sociology* (1958), 1955.

CHARLES SCOTT SIMMONS, *Business Manager of Athletics* (1955), 1947.

HOWARD PERRY SIMONS, B.A., M.SC., PH.D., *Professor and Chairman of Chemical Engineering; Chemical Engineer, Engineering Experiment Station* (1959), 1939.

ARMAND EDWARDS SINGER, A.B., A.M., PH.D., *Professor of Romance Languages* (1955), 1940.

LEONARD MARION SIZER, B.A., M.A., PH.D., *Associate Professor of Rural Sociology; Associate Rural Sociologist, Agricultural Experiment Station* (1959), 1955.

CHARLES PRESTON SKAGGS, B.S., C.P.A., *Lecturer in Accounting* (1954).

ELIZABETH SUMMERS SKAGGS, R.N., B.S., *Nursing Supervisor, Out-patient Department, University Hospital* (1960).

JOHN MADISON SLACK, B.A., M.S., PH.D., *Professor and Chairman of Microbiology* (1949), 1946.

CLARK KENDALL SLEETH, A.B., B.S., M.D., *Dean, School of Medicine; Professor of Medicine* (1961), 1935.

ROBERT DEAN SLONNEGER, B.S.M.E., M.S.M.E., *Associate Professor of Mechanical Engineering; Associate Mechanical Engineer, Engineering Experiment Station* (1955), 1954.

GENEVIEVE POLAND SMELL, A.B., M.A., *Instructor in Biology* (1946). (Deceased January 23, 1960.)

ARTHUR NEWELL SMITH, A.B., *Associate Professor Emeritus of Physical Education; Track Coach Emeritus* (1957), 1924. (Deceased November 5, 1960.)

BARBARA ANNE SMITH, B.S., *Pharmacist, Out-patient Department, University Hospital* (1960).

FRED MANNING SMITH, A.B., B.A., M.A., PH.D., *Professor Emeritus of English* (1952), 1922.

HOWARD CARROLLTON SMITH, B.S.A., *Superintendent, Poultry Science Farm* (1921).

MARION JUDSON SMITH, B.S.E.E., M.S.E.E., *Professor of Electrical Engineering* (1956), 1954.

NELSON STUART SMITH, JR., B.S.E.E., M.S.E.E., *Assistant Professor of Electrical Engineering* (1958), 1956.

PAUL MORROW SMITH, B.S., *Superintendent of Dairy Processing; Instructor in Dairy Science* (1959).

ROBERT LEO SMITH, B.S., M.S., PH.D., *Assistant Professor of Wildlife Management; Assistant Forester, Agricultural Experiment Station* (1958).

SARA RECTOR SMITH, A.B., M.A., PH.D., *Associate Professor of History* (1951), 1946.

GRACE MARTIN SNEE, B.M., *Instructor Emeritus in Music* (1945), 1898.

ROBERT BRUCE SNIDER, M/SGT., *Administrative Supervisor, Military Science* (1959).

DONALD LANE SNODGRASS, *Nuclear Engineering Technician in Chemical Engineering* (1960).

COY LARUE SON, S/SGT., *Personnel Technician, Air Science* (1957).

RUTH J. SORGE, B.S., M.ED., *Supervisor, Operating Rooms, University Hospital* (1960).

SYLVIA JOSEPHINE SOUPART, M.A., *Instructor Emeritus in Education* (1945), 1925. (Deceased August 26, 1959.)

SHARON SOUTAR, B.S., *Administrative Supervisor, University Hospital* (1960).

ROBERT CLIFTON SPANGLER, A.B., M.A., PH.D., *Professor Emeritus of Botany* (1955), 1914.

HENRY WITHERS SPEIDEN, B.S.C.E., M.S.C.E., *Professor and Chairman of Civil Engineering; Civil Engineer, Engineering Experiment Station* (1947), 1931. (Resigned June 30, 1960.)

CHARLES BILLMYER SPEROW, JR., B.S.AGR., *Assistant Agronomist-in-Charge, Ohio Valley Substation* (Pt. Pleasant), *Agricultural Experiment Station* (1957), 1952.

CLAUDE CARL SPIKER, A.B., M.A. PH.D., *Professor Emeritus of Romance Languages* (1954), 1913.

GAROLD RALPH SPINDLER, B.S.E.M., E.M., *Dean, School of Mines, Professor of Mining Engineering; Mining Engineer, Engineering Experiment Station* (1959), 1934. (Deceased February 20, 1961.)

JOSEPHINE BROWN SPINDLER, *Social Director, Terrace Residence Hall* (1960).

ROBB SPAULDING SPRAY, PH.D., *Professor Emeritus of Bacteriology and Public Hygiene* (1946), 1921.

ELVIS JACOB STAHR, JR., A.B., B.A. IN JURISPRUDENCE, B.C.L., M.A., LL.D., *President of the University* (1959). (On Leave of Absence as Secretary of the Army 1961- .)

ELIZABETH MATTINGLY STALNAKER, A.B., A.M., PH.D., *Professor Emeritus of Psychology* (1953), 1925.

EUGENE LEO STAPLES, B.S., M.H.A., *Director of University Hospital* (1960).

ARCHIE LEMUEL STARKEY, B.S., M.D., *Instructor* (part-time) *in Medicine* (1949). (Resigned December 31, 1960.)

JOHN FRANCIS STASNY, A.B., M.A., *Instructor in English* (1955).

EDWARD MARVIN STEEL, JR., A.B., M.A., PH.D., *Assistant Professor of History* (1956).

ROBERT LEE STEELE,* B.S., M.S., *Associate Extension Dairyman, Agricultural Extension Service* (1957), 1955. (Resigned February 6, 1960.)

FORREST WILBUR STEMPLE, A.B., M.SC., PH.D., *Professor Emeritus of Education* (1952), 1916.

RUTH MAGDALENE STEMPLE, B.S., M.S., *Head, Agriculture-Engineering Library* (1960), 1955.

JOHN RICHARD STEVENS, A.A., B.A., M.A., *Instructor in English* (1959). (Resigned July 1, 1960.)

GUY HARRY STEWART, B.S.J., M.A., PH.D., *Associate Professor of Journalism* (1960), 1949.

IRVIN STEWART, LL.B., B.A., M.A., PH.D., LL.D., LITT.D., *Professor of Political Science* (1958), 1946.

JOSEPH K. STEWART, PH.D., *Professor and Chairman of Mathematics* (1960), 1930.

ORVAL CHRISTY STEWART, B.S.M.E., *Instructor in Mechanical Engineering* (1956).

GLENN EDWARD STEYERS, B.S., M.S., *Associate Professor of Horticulture; University Landscape Architect* (1960).

JOHN CLIFFORD STICKNEY, B.S., M.S., PH.D., *Professor of Physiology* (1957), 1940.

ROBERT S. STILWELL, B.A., M.A., PH.D., *Professor of German* (1955), 1947.

LOWRY MCELVAINE STOOPS, A.B., *Assistant Director of Athletics* (1926).

BENJAMIN MORTIMER STOUT, A.B., M.D., *Physician, University Health Service; Clinical Instructor in Medicine* (1957).

RICHARD EUGENE STRANGE, B.M.E., M.M.E., *Assistant Professor of Music; Director of Bands, School of Music* (1960).

JOHN MILTON STRAIT, M.E. IN E.E., M.E.PROF., *Associate Professor of Mechanical Engineering* (1955).

PERRY DANIEL STRAUSBAUGH, PH.D., *Professor Emeritus of Botany* (1948), 1923.

ROBERT COWAN STRONG, JR., B.S., M.S., B.ED., *Instructor in Mathematics* (1957).

EDWARD G. STUART, B.S., M.A., PH.D., M.D., *Assistant Professor of Pathology* (1960).

ALBERT LEE STURM, A.B., A.M., PH.D., *Professor of Political Science* (1951), 1946. (Leave of Absence January 16, 1961 to May 31, 1961.)

FESTUS PAUL SUMMERS, A.B., A.M., PH.D., *Professor and Chairman of History* (1947), 1932.

WILLIAM ROBERT SUMMERS, JR., B.J., M.A., *Associate Professor of Journalism* (1960), 1952.

MARY LANE SWARTZ, B.S., M.S.H.E., *Coordinator for Foreign Students in Home Economics* (1958). (Resigned May 31, 1960.)

JOHN BRADFORD SWECKER, B.S., M.S., *Assistant Professor of Agricultural Education* (1956).

ROBERT FREDERICK SWEITZER, B.S.AGR., *Superintendent, Horticulture Farm* (1960).

RAY DARIS SWINDLER, A.B., M.A., *Instructor in Gross and Neurological Anatomy* (1957), 1954. (Resigned July 1, 1959).

H. SINCLAIR TAIT, M.D., C.M., P.M.B., *Assistant Professor* (part-time) *of Medicine* (1952). (Resigned April 30, 1957.)

W. B. TALBOTT, *Instructor in Mining Extension* (1927).

JOSEPH PAUL TALERICO, A.B., M.A., *Instructor in Education; Teacher, University High School* (1950), 1948.

THOMAS JOSEPH TATTERSON,* B.S., *Assistant Extension Horticulturist, Agricultural Extension Service* (1957).

Charles Leonard Taylor,* B.S., M.M., *Recreation Specialist, Oglebay Institute, Agricultural Extension Service* (P.O. Wheeling) (1953).

Harley Ustus Taylor, Jr., B.A., M.A., *Instructor in German; Assistant in Humanities* (1951), 1949.

Jack Dean Taylor, B.S., M.A., *Instructor in Education* (1958), 1957.

Leland Hart Taylor, B.S., M.S., Sc.D., *Professor of Zoology* (1939), 1922.

Mary Coddington Templeton, A.B., M.S., *Assistant in Agricultural Economics, Agricultural Experiment Station* (1955).

Noel A. Tenney, *Assistant Superintendent of Buildings and Grounds* (1956).

Roger D. Teter, B.S.M.E., *Instructor in Theoretical and Applied Mechanics* (1959).

Willard Dale Thacker, B.S., *Chief Pharmacist, University Hospital* (1960).

Samuel Thaviu, *Instructor* (part-time) *in Music* (1952). (Resigned May 31, 1959.)

Kinney Joseph Thens, B.S., *Instructor in Home Economics; Manager, University Cafeteria* (1959).

Ralph Hough Theophilus, B.S.E.E., Litt.M., M.Ed., *Associate Professor of Electrical Engineering* (1956).

Arthur Raymond Thomas, A.B., Sc.M., Ph.D., *Assistant Professor of Psychology* (1957), 1956.

Charles Danser Thomas, A.B., M.S., Ph.D., *Professor and Chairman of Physics* (1956), 1931.

Raymond Lawrence Thomas, B.S., M.A., *Instructor in English* (1959).

Robert Hamilton Thomas, B.S.Agr., M.A., Ph.D., *Associate Professor of Dairy Science; Associate Dairy Scientist, Agricultural Experiment Station* (1958).

James Howard Thompson, A.B., M.A., Ph.D., *Professor of Economics; Director, Bureau of Business Research* (1958), 1948.

John Manville Thompson, B.A., M.F.A., *Instructor in English* (1958). (Resigned May 31, 1959.)

Gordon Rudolph Thorn, A.B., M.A., *Assistant Director of Student Affairs; Head Resident, Men's Hall* (1957).

June Metz Thorn,* B.S., M.S., *Assistant State Club Leader, Agricultural Extension Service* (1958), 1945.

George E. Toben, M.S., *Professor of Agricultural Economics; Agricultural Economist, Agricultural Experiment Station* (1960), 1946.

Robert John Tolbert, B.S., B.A., Ph.D., *Assistant Professor of Biology* (1959).

Harry F. Toothman, Ph.D., *Associate Professor Emeritus of Education, University Extension Service* (1955), 1946.

Patrick Anthony Tork, A.B., M.A., *Professor of Physical Education; Director, General Program for Men; Director of Field House* (1953), 1943.

Celia Jeanette Tower, A.B., M.A., *Instructor in English* (1957).

Edwin S. Townsend, B.S., *Programmer, Data Processing Center* (1960).

Martha Rector Traxler, *Chief Clerk, College of Agriculture, Forestry, and Home Economics and Agricultural Experiment Station* (1950), 1927.

Charles Edward Triona, M/Sgt., *Assistant Supply Sergeant, Military Science* (1959).

Rodney Philip True, A.B., Ph.D., *Professor of Plant Pathology; Plant Pathologist, Agricultural Experiment Station* (1955), 1949 .

Earl Haven Tryon, B.S., M.S., Ph.D., *Professor of Silviculture; Silviculturist, Agricultural Experiment Station* (1952), 1945.

Bird Margaret Turner, A.B., A.M., Ph.D., *Professor Emeritus of Mathematics* (1947), 1923.

Benjamin Harrison Ulrich, Jr., B.S.A.E., M.S.A.E., *Associate Professor of Aero-Space Engineering; Associate Aero-Space Engineer, Engineering Experiment Station* (1955), 1951.

Valentin Ulrich, A.B., Ph.D., *Assistant Professor of Agronomy; Assistant Agronomist, Agricultural Experiment Station* (1957).

Eugene Riley Vale, Sgt.Maj., *Sergeant Major in Air Science* (1956).

Greg Van Camp, A.B., *Coordinator of Educational Broadcasting* (1960).

Willem Adolph van Eck, B.S.Trop.For., M.S., Ph.D., *Assistant Professor of Agronomy; Assistant Agronomist, Agricultural Experiment Station* (1957).

Audrey Howard VanLandingham, B.S., M.S., Ph.D., *Director, Agricultural Experiment Station; Associate Dean, College of Agriculture, Forestry, and Home Economics* (1959), 1929.

Edward Jerald Van Liere, M.S., M.D., Ph.D., Litt.D., *Professor of Physiology* (1961), 1921.

Irene Fetty Vanroyen, A.B., B.S.L.S., *Senior Reference Librarian, Library* (1958). (Resigned July 31, 1959.)

Collins Veatch, B.S., M.S., Ph.D., *Professor of Agronomy; Agronomist, Agricultural Experiment Station* (1959), 1945.

Charles Henry Vehse, Sc.B., M.S., Ph.D., *Professor of Mathematics* (1947), 1929.

Marvin Lewis Vest, B.S., M.S., A.M., Ph.D., *Professor of Mathematics* (1955), 1931.

Vern Hargrave Vincent, B.B.A., M.B.A., Ph.D., *Assistant Dean, College of Commerce; Professor of Accounting* (1958), 1957.

Mayme Elizabeth Waddell, B.S., M.A., *Director, Residence Halls* (Retired) (1956), 1930.

Carl Eustice Wade, B.S., M.S., *Instructor in Economics* (1955). (Resigned June 30, 1959.)

Barbara Allene Ward, A.B., M.S.L.S., *Instructor in Library Science* (1958). (Resigned May 31, 1961.)

Elizabeth Ruth Phillips Wade, A.B., B.M., M.S., *Assistant Professor of Speech* (1954), 1953. (On Leave of Absence.)

Rebecca Estra Wade, A.B., M.A., *Assistant Professor of Romance Languages* (1955), 1945.

William Vaughn Warner, B.S., M.A., Ed.D., *Assistant Professor of Education* (1960), 1959.

Roy Emil Wall, *Associate Illustrator in Photography and Illustration, Medical Center* (1959).

Thomas Joseph Wall, M.Litt., *Director of Personnel* (1960).

Charles Ernest Walls, *Mechanician in Chemical Engineering* (1947), 1938.

Richard Edison Walters, B.S.A.E., *Instructor in Aero-Space Engineering* (1960), 1959.

James Henry Walthall, B.S., *Assistant Football Coach; Instructor in Physical Education* (1960).

Benjamin W. Wamsley,* A.B., B.S., *Associate Extension Animal Husbandman, Agricultural Extension Service* (1957), 1948.

Herbert E. Warden, B.S., M.D., Ph.D., *Associate Professor of Surgery* (1960).

Juanita Ruth Ware, R.N., *Head Nurse, University Hospital* (1960).

Charles Henry Warner, B.S.M.E., M.S.M.E., *Assistant Professor of Mechanical Engineering* (1960), 1955.

Mary Melissa Washburn,* *Assistant to Director, Agricultural Extension Service* (1957), 1934.

James Allen Wasson, B.S., M.S., *Assistant Professor of Mining Engineering* (1960).

Charles Mitchell Watson, M.S., *Instructor in Speech* (1956). (Resigned May 31, 1959.)

Leighton Guilford Watson,* A.B., *Extension Editor, Agricultural Extension Service* (1947), 1938.

Ray Howard Watson, B.A., M.S., *Assistant Football Coach; Instructor in Physical Education* (1960).

Daniel Thomas Watts, A.B., Ph.D., *Professor and Chairman of Pharmacology* (1953).

Royce Jackson Watts, B.S., *Administrative Assistant to the Dean, College of Agriculture, Forestry, and Home Economics* (1961), 1955.

Waldemar Anthony Wawrukiewicz, Lt., B.S., *Assistant Professor of Air Science* (1958). (Resigned August 31, 1959.)

Charles Edward Weakley, Jr., A.B., M.A., *Associate Agricultural Biochemist Emeritus, Agricultural Experiment Station* (1955), 1907.

George William Weaver, B.S.M.E., M.S.M.E., *Associate Professor of Theoretical and Applied Mechanics* (1956), 1948.

Paul Robert Webb, B.S., M.A., *Teacher, University High School* (1959).

Samuel Josephus Weese, B.S., M.A., *Associate Professor of Dairy Science; Associate Dairy Scientist, Agricultural Experiment Station* (1951), 1945.

James Alexander Welch, B.S.Agr., Ph.D., *Professor of Animal Science; Animal Husbandman, Agricultural Experiment Station* (1960), 1952.

John Thomas Welch, A.B., D.D.S., *Assistant Professor of Oral Surgery* (1959).

Lloyd Washington Welden, A.M., B.S., *Associate Professor of Speech; Executive Secretary, West Virginia Interscholastic Forensic League; Director of Public Address Area* (1952), 1948.

Neil J. Weller, Ph.B., M.A., Ph.D., *Assistant Professor of Sociology* (1958).

Dana Wells, A.B., M.A., Ph.D., *Professor of Geology* (1952), 1930

Ching-yung Wen, B.S., M.S.Ch.E., Ph.D., *Associate Professor of Chemical Engineering* (1959), 1954.

Blaine Stemple West, B.S.C.E., *Instructor in Theoretical and Applied Mechanics* (1960).

KYLE CHESTER WESTOVER, B.S., M.S., PH.D., *Professor of Horticulture; Horticulturist, Agricultural Experiment Station* (1945), 1921.
JOSEPH BERNARD WEYRICK, M/SGT., *Instructor in Military Science* (1959).
HARRY GROVE WHEAT, A.B., A.M., PH.D., *Professor Emeritus of Education* (1956), 1935.
BENNETT SEXTON WHITE, B.S.M.E., *Professor Emeritus of Drawing and Machine Design* (1946), 1919.
JOHN LYNN WHITE, B.S.M.E., *Instructor in Theoretical and Applied Mechanics* (1960).
RALPH MILTON WHITE, A.B., M.A., LL.B., *Assistant Professor of Political Science* (1957), 1942.
SHIRLEY MARIE KIDD WHITE, A.B., *Junior Catalogue Librarian* (1959), 1956.
WALDO D. WHITNEY, A.B., M.S.S.W., *Associate Professor of Social Work; Co-Administrator, University Counseling Center* (1957), 1951.
FREDERICK RENDELL WHITTLESEY, B.A., M.D., *Assistant Professor* (part-time) *of Medicine* (1940), 1930.
MARY KATHRYNE WIEDEBUSCH, B.S., *Instructor in Women's Physical Education* (1955).
ELLA B. WIESE, *Executive Housekeeper, University Hospital* (1960).
DALE LEROY WILHELM, B.S., M.S., PH.D., *Associate Professor of Chemistry* (1959), 1954.
CAROLYN WILLIAMS, B.S., M.A., *Assistant Professor of Women's Physical Education* (1957). (Resigned May 31, 1961.)
JOHN RODNEY WILLIAMS, B.A., M.A., PH.D., *Associate Professor of Political Science* (1956), 1949.
LEAH ANN WILLIAMS, A.B., M.S., *Instructor in Biology* (1959).
T. WALLEY WILLIAMS, B.S., M.S., PH.D., *Professor and Chairman of Microanatomy and Organology* (1957), 1944.
DOUGLAS BLEECKER WILLIAMSON, B.A., M.A., ED.D., *Associate Professor of Physics* (1946).
BERTHA LYNN WILSON, B.S.H.E., *Assistant Dietitian, Arnold Dining Hall* (1959). (Resigned May 30, 1960.)
CHARLES VINEYARD WILSON, B.S.AGR., M.S., *Professor Emeritus of Animal Husbandry* (1952), 1919.
DONALD EDWARD WILSON, CAPT., B.A., *Assistant Professor of Air Science* (1958).
HAROLD ALBERT WILSON, B.S., M.S., PH.D., *Professor of Bacteriology; Bacteriologist, Agricultural Experiment Station* (1957), 1947.
JOHN FREDERICK WILSON, A.B., D.D.S., *Instructor* (part-time) *in Operative Dentistry* (1959), 1958.
MARGARET ANN WILSON, B.S., M.S.C., PH.D., *Director, University Hospital Dietetics Department* (1960).
QUINTUS C. WILSON, B.S., M.A., PH.D., *Professor and Dean, School of Journalism* (1961).
RODERICK WAYNE WILSON, A.B., M.S., *Instructor in Physics* (1960).
MAY LANDSTREET WILT, B.S., M.A., *Instructor in Education; Teacher University High School* (1931), 1925.
AUDREY EDITH WINDEMUTH, B.S., M.N.A., *Director of Nursing Service, University Hospital* (1960).
ANTHONY WINSTON, B.S., M.S., PH.D., *Assistant Professor of Chemistry* (1959).
JOHN E. WINTER, PH.D., *Professor Emeritus of Psychology* (1948), 1921. (Deceased July 17, 1959.)
LOUISE FARRELL WINTERBOTTOM, Law Librarian (Retired) (1959), 1924. (Retired July 1, 1959.)
ALBERT FREDDIE WOJCIK, B.S., M.S., *Assistant Professor of Pharmacy* (1949), 1945.
JOSEPH FRANCIS WOLFE, *Flight Instructor in Aero-Space Engineering* (1958).
WILLIAM WAYNE WOLFE, *Air Science Supply Sergeant* (1958). (Resigned June 20, 1960.)
DARRELL ELROY WOOD, B.M., M.M., *Instructor in Education; Teacher, University High School* (1959).
KENNETH WOOD, B.M., M.M., *Associate Professor of Music* (1941), 1928.
YVONNE MILDRED WOOFTER, A.B., M.A., *Instructor in Education; Teacher, University High School* (1941), 1936.
DONALD THOMPSON WORRELL, B.S.E.E., M.S.E.E., *Professor of Theoretical and Applied Mechanics; Mechanics Engineer, Engineering Experiment Station* (1955), 1941.
FRED EARL WRIGHT, II, B.S., M.A., *Assistant Professor of Finance* (1955), 1951.
JAMES WILLIAM WRIGHT, A.B., B.D., A.M., *Associate Professor of Sociology, University Extension Service* (1947). (Resigned June 1, 1960.)

Donald Harold Wykoff, B.S., *Guidance Assistant in Education* (1960).
Margaret Ann Yarbrough, R.N., *General Duty Nurse, University Health Service* (1953).
Elisabeth Stelle Yearick, B.S., M.S., Ph.D., *Associate Professor of Nutrition; Associate Nutritionist, Agricultural Experiment Station; Dietitian* (part-time) *University Hospital* (1960).
Charles Peter Yost, B.S., M.S., Ph.D., *Associate Professor of Physical Education; Supervisor of Safety Education* (1958), 1946.
James Robert Young, B.A., M.A., *Assistant Professor of Journalism* (1954).
Edward Yurick, B.A., M.A., Ph.D., *Assistant Professor of History* (1959).
Stanley Arnold Zahler, A.B., M.S., Ph.D., *Assistant Professor of Microbiology* (1958). (Resigned July 15, 1959.)
Donald Carl Zeiger, B.S.Agr., M.S., Ph.D., *Assistant Horticulturist, Agricultural Experiment Station* (Kearneysville) (1958).
Bernard Zimmermann, M.D., Ph.D., *Professor and Chairman of Surgery* (1960).

Part V

APPENDIX

THE CLASSIFIED ENROLLMENT

A. The Summer Session, 1960

Colleges and Schools	Senior			Junior			Sophomore			Freshman			Total			Special			Grand Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agr., For., & Home Econ	48	16	64	41	6	47	21	4	25	6	2	8	116	28	144	.....	2	2	116	30	146
Arts and Sciences	109	39	148	72	43	115	96	69	165	65	45	110	342	196	538	31	27	58	373	223	596
Commerce	73	4	77	27	3	30	.....	.....	.....	.....	.....	.....	100	7	107	.....	.....	.....	100	7	107
Education	36	49	85	9	32	41	.....	.....	.....	.....	.....	.....	45	81	126	3	8	11	48	89	137
Engineering	56	1	57	94	1	95	60	.....	60	18	.....	18	228	2	230	2	.....	2	230	2	232
Graduate	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	823	440	1,263	167	124	291	990	564	1,554
Journalism	2	2	4	3	3	6	.....	.....	.....	.....	.....	.....	5	5	10	.....	.....	.....	5	5	10
Mines	6	.....	6	5	.....	5	4	.....	4	.....	.....	.....	15	.....	15	.....	.....	.....	15	.....	15
Music	3	7	10	1	5	6	3	7	10	1	2	3	8	21	29	1	.....	1	9	21	30
Pharmacy	7	.....	7	12	2	14	5	1	6	.....	1	1	24	4	28	.....	.....	.....	24	4	28
Phys. Ed., & Ath	31	11	42	21	8	29	9	10	19	10	5	15	71	34	105	1	.....	1	72	34	106
TOTAL	371	129	500	285	103	388	198	91	289	100	55	155	1,777	818	2,595	205	161	366	1,982	979	2,961
	4th Year			3rd Year			2nd Year			1st Year			Total			Special			Grand Total		
Dentistry	.....	.....	.....	3	.....	3	2	.....	2	.....	.....	.....	5	.....	5	.....	.....	.....	5	.....	5
Law	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Medicine	.....	.....	.....	.....	.....	.....	.....	9	9	.....	.....	.....	.....	9	9	.....	.....	.....	.....	9	9
TOTAL	.....	.....	.....	3	.....	3	2	9	11	.....	.....	.....	5	9	14	.....	.....	.....	5	9	14
GRAND TOTAL	371	129	500	288	103	391	200	100	300	100	55	155	1,782	827	2,609	205	161	366	1,987	988	2,975

B. The First Semester (September to January), 1960-61

Colleges and Schools	Senior			Junior			Sophomore			Freshman			Total			Special			Grand Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agr., For., & Home Econ	99	26	125	112	49	161	114	42	156	141	52	193	466	169	635	1	3	4	467	172	639
Arts and Sciences	182	75	257	247	115	362	497	301	798	661	438	1,099	1,587	929	2,516	36	49	85	1,623	978	2,601
Commerce	134	11	145	99	7	106							233	18	251	3		3	236	18	254
Education	45	83	128	30	83	113							75	166	241		1	1	75	167	242
Engineering	215	2	217	259	2	261	264	3	267	358	1	359	1,096	8	1,104	9		9	1,105	8	1,113
Graduate													[1]582	[2]198	[3]780	[4]81	60	[4]141	[5]663	[2]258	[6]921
Journalism	10	9	19	15	6	21							25	15	40	1		1	26	15	41
Mines	21		21	9		9	11		11	14		14	55		55				55		55
Music	8	11	19	11	8	19	17	23	40	21	16	37	57	58	115	1		1	58	58	116
Nursing											28	28		28	28					28	28
Pharmacy	19	2	21	29	5	34	24	7	31				72	14	86				72	14	86
Phys. Ed., & Ath	66	10	76	69	14	83	72	25	97	50	31	81	257	80	337		3	3	257	83	340
TOTAL	799	229	1,028	880	289	1,169	999	401	1,400	1,245	566	1,811	4,505	1,683	6,188	132	116	248	4,637	1,799	6,436
	4th Year			3rd Year			2nd Year			1st Year			Total			Special			Grand Total		
Dentistry	23		23	26		26	21	1	22	22		22	92	1	93				92	1	93
Law				39		39	48	2	50	72	2	74	159	4	163				159	4	163
Medicine		9	9	15	1	16	46	1	47	44	8	52	105	19	124				105	19	124
TOTAL	23	9	32	80	1	81	115	4	119	138	10	148	356	24	380				356	24	380
GRAND TOTAL	822	238	1,060	960	290	1,250	1,114	405	1,519	1,383	576	1,959	4,861	1,707	6,568	132	116	248	4,993	1,823	6,816

[1]Includes 66 students in Kanawha Valley Center.
[2]Includes 1 student in Kanawha Valley Center.
[3]Includes 67 students in Kanawha Valley Center.
[4]Includes 4 students in Kanawha Valley Center.
[5]Includes 70 students in Kanawha Valley Center.
[6]Includes 71 students in Kanawha Valley Center.

C. The Second Semester (February to June), 1960-61

Colleges and Schools	Senior			Junior			Sophomore			Freshman			Total			Special			Grand Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agr., For., & Home Econ	86	25	111	122	50	172	103	36	139	130	52	182	441	163	604	2	8	10	443	171	614
Arts and Sciences	171	77	248	224	95	319	448	273	721	571	370	941	1,414	815	2,229	11	41	52	1,425	856	2,281
Commerce	122	11	133	116	8	124	.....	.....	.....	.....	.....	.....	238	19	257	2	.....	2	240	19	259
Education	43	84	127	41	84	125	.....	.....	.....	.....	.....	.....	84	168	252	.....	3	3	84	171	255
Engineering	198	2	200	233	.....	233	235	3	238	304	3	307	970	8	978	2	.....	2	972	8	980
Graduate	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[1]566	[2]178	[3]744	[4]89	56	[4]145	[5]655	[2]234	[6]889
Journalism	11	10	21	13	6	19	.....	.....	.....	.....	.....	.....	24	16	40	1	.....	1	25	16	41
Mines	14	.....	14	10	.....	10	15	.....	15	13	.....	13	52	.....	52	2	.....	2	54	.....	54
Music	7	11	18	14	10	24	12	21	33	19	13	32	52	55	107	.....	1	1	52	56	108
Nursing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31	31	.....	31	31	.....	.....	.....	.....	31	31
Pharmacy	22	2	24	27	6	33	19	6	25	.....	.....	.....	68	14	82	.....	.....	.....	68	14	82
Phys. Ed. & Ath	72	10	82	63	16	79	77	24	101	55	27	82	267	77	344	.....	3	3	267	80	347
TOTAL	746	232	978	863	275	1,138	909	363	1,272	1,092	496	1,588	4,176	1,544	5,720	109	112	221	4,285	1,656	5,941
	4th Year			3rd Year			2nd Year			1st Year			Total			Special			Grand Total		
Dentistry	23	.....	23	26	.....	26	21	1	22	20	.....	20	90	1	91	.....	.....	.....	90	1	91
Law	.....	.....	.....	42	1	43	45	1	46	56	1	57	143	3	146	.....	.....	.....	143	3	146
Medicine	.....	9	9	16	2	18	46	1	47	41	6	47	103	18	121	.....	.....	.....	103	18	121
TOTAL	23	9	32	84	3	87	112	3	115	117	7	124	336	22	358	.....	.....	.....	336	22	358
GRAND TOTAL	769	241	1,010	947	278	1,225	1,021	366	1,387	1,209	503	1,712	4,512	1,566	6,078	109	112	221	4,621	1,678	6,299

[1]Includes 52 students in Kanawha Valley Center.
[2]Includes 1 student in Kanawha Valley Center.
[3]Includes 53 students in Kanawha Valley Center.
[4]Includes 5 students in Kanawha Valley Center.
[5]Includes 57 students in Kanawha Valley Center.
[6]Includes 58 students in Kanawha Valley Center.

D. The Academic Year (September to June), 1960-61

Colleges and Schools	Senior			Junior			Sophomore			Freshman			Total			Special			Grand Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agr., For., & Home Econ	107	28	135	124	51	175	117	41	158	142	55	197	490	175	665	2	10	12	492	185	677
Arts and Sciences	192	84	276	242	106	348	506	306	812	644	435	1,079	1,584	931	2,515	40	75	115	1,624	1,006	2,630
Commerce	147	14	161	121	8	129	.....	.....	.....	.....	.....	.....	268	22	290	3	.....	3	271	22	293
Education	49	100	149	42	88	130	.....	.....	.....	.....	.....	.....	91	188	279	.....	4	4	91	192	283
Engineering	234	2	236	254	.....	254	260	3	263	324	3	327	1,072	8	1,080	10	.....	10	1,082	8	1,090
Graduate	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[1]717	[2]245	[3]962	[4]120	87	[4]207	[5]837	[2]332	[6]1,169
Journalism	13	10	23	13	7	20	.....	.....	.....	.....	.....	.....	26	17	43	1	.....	1	27	17	44
Mines	19	.....	19	11	.....	11	16	.....	16	13	.....	13	59	.....	59	2	.....	2	61	.....	61
Music	8	11	19	14	10	24	12	23	35	20	15	35	54	59	113	.....	1	1	54	60	114
Nursing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	32	.....	32	32	.....	.....	.....	.....	32	32
Pharmacy	22	2	24	27	6	33	19	6	25	.....	.....	.....	68	14	82	.....	.....	.....	68	14	82
Phys. Ed. & Ath	77	11	88	67	16	83	88	27	115	65	30	95	297	84	381	.....	5	5	297	89	386
TOTAL	868	262	1,130	915	292	1,207	1,018	406	1,424	1,208	570	1,778	4,726	1,775	6,501	178	182	360	4,904	1,957	6,861
	4th Year			3rd Year			2nd Year			1st Year			Total			Special			Grand Total		
Dentistry	23	.....	23	26	.....	26	22	1	23	21	.....	21	92	1	93	.....	.....	.....	92	1	93
Law	.....	.....	.....	43	1	44	49	1	50	64	2	66	156	4	160	.....	.....	.....	156	4	160
Medicine	.....	9	9	16	2	18	46	1	47	44	6	50	106	18	124	.....	.....	.....	106	18	124
TOTAL	23	9	32	85	3	88	117	3	120	129	8	137	354	23	377	.....	.....	.....	354	23	377
GRAND TOTAL	891	271	1,162	1,000	295	1,295	1,135	409	1,544	1,337	578	1,915	5,080	1,798	6,878	178	182	360	5,258	1,980	7,238

[1]Includes 74 students in Kanawha Valley Center.
[2]Includes 1 student in Kanawha Valley Center.
[3]Includes 75 students in Kanawha Valley Center.
[4]Includes 8 students in Kanawha Valley Center.
[5]Includes 82 students in Kanawha Valley Center.
[6]Includes 83 students in Kanawha Valley Center.

E. The Summary for 1960-61

Colleges and Schools	Senior			Junior			Sophomore			Freshman			Total			Special			Grand Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Agr., For., & Home Econ	119	37	156	127	51	178	118	41	159	142	56	198	506	185	691	2	11	13	508	196	704
Arts and Sciences	228	100	328	255	112	367	516	319	835	659	443	1,102	1,658	974	2,632	65	96	161	1,723	1,070	2,793
Commerce	175	16	191	125	9	134	.....	.....	.....	.....	.....	.....	300	25	325	3	.....	3	303	25	328
Education	64	120	184	43	96	139	.....	.....	.....	.....	.....	.....	107	216	323	3	11	14	110	227	337
Engineering	224	2	226	274	1	275	263	3	266	326	3	329	1,087	9	1,096	11	.....	11	1,098	9	1,107
Graduate	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[1]1,273	[2]579	[3]1,852	[4]252	194	[4]446	[5]1,525	[2]773	[6]2,298
Journalism	14	11	25	13	7	20	.....	.....	.....	.....	.....	.....	27	18	45	1	.....	1	28	18	46
Mines	20	.....	20	11	.....	11	16	.....	16	13	.....	13	60	.....	60	2	.....	2	62	.....	62
Music	9	13	22	14	12	26	12	23	35	20	15	35	55	63	118	1	1	2	56	64	120
Nursing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31	31	.....	31	31	.....	.....	.....	.....	31	31
Pharmacy	25	2	27	27	6	33	19	6	25	.....	.....	.....	71	14	85	.....	.....	.....	71	14	85
Phys. Ed. & Ath	88	15	103	67	15	82	89	32	121	65	31	96	309	93	402	1	5	6	310	98	408
TOTAL	966	316	1,282	956	309	1,265	1,033	424	1,457	1,225	579	1,804	5,453	2,207	7,660	341	318	659	5,794	2,525	8,319
	4th Year			3rd Year			2nd Year			1st Year			Total			Special			Grand Total		
Dentistry	23	.....	23	26	.....	26	22	1	23	21	.....	21	92	1	93	.....	.....	.....	92	1	93
Law	.....	.....	.....	43	1	44	49	1	50	64	2	66	156	4	160	.....	.....	.....	156	4	160
Medicine	.....	9	9	16	2	18	46	1	47	44	5	49	106	17	123	.....	.....	.....	106	17	123
TOTAL	23	9	32	85	3	88	117	3	120	129	7	136	354	22	376	.....	.....	.....	354	22	376
GRAND TOTAL	989	325	1,314	1,041	312	1,353	1,150	427	1,577	1,354	586	1,940	5,807	2,229	8,036	341	318	659	6,148	2,547	8,695

[1]Includes 74 students in Kanawha Valley Center.
[2]Includes 1 student in Kanawha Valley Center.
[3]Includes 75 students in Kanawha Valley Center.
[4]Includes 8 students in Kanawha Valley Center.
[5]Includes 82 students in Kanawha Valley Center.
[6]Includes 83 students in Kanawha Valley Center.

E. (Cont'd) Extension, Short Courses, and Conferences

	M	W	T
UNIVERSITY EXTENSION OF COLLEGIATE GRADE[5]			
University Extension of Collegiate Grade (Not counted elsewhere)	571	943	*1,514
University Resident Enrollment	6,148	2,547	8,695
Total University Enrollment of Collegiate Grade	6,719	3,490	10,209
*This number represents those persons enrolled only in extension courses of collegiate grade.			
CONFERENCES:			
Adult Education Institute			80
Economic Education Workshop			51
Forced Warm Air Conference			76
Industrial Engineering Conference			192
Industrial Engineering Conference for Management and Supervision			250
Labor Education Institute			55
Labor Management Conference			72
Music Composition Festival			100
Nurserymans Association			35
Personnel Workshop			22
Refresher-Challenger Workshop-Conference			118
School of Banking			180
Tax Institute			150
Total			1,381
EXTENSION[5] (Non Collegiate Grade)			
A. C. Electric Equipment Maintenance			151
Coal Mining			131
Coal Preparation			11
D. C. Electric Equipment Maintenance			224
Electronics			138
Fire Service			464
Hydraulics			125
Mathematics			48
Mathematics and Science			46
Mine Equipment and Maintenance Short Course			155
Miners Encampment			35
Oil and Gas			59
Special Mining Classes			57
Technical Education Program			56
Total			1,700
SHORT COURSES AT MORGANTOWN[5]			
Appalachian Gas Measurement Short Course			744
Appalachian Underground Corrosion Short Course			590
Coal Mining Short Course			4
Fire School			155
Total			1,493
GRAND TOTAL			14,783

Resident Enrollment, 1960-61, by West Virginia Counties

Barbour	61	Mineral	92
Berkeley	59	Mingo	60
Boone	49	Monongalia	1,643
Braxton	41	Monroe	25
Brooke	111	Morgan	27
Cabell	79	Nicholas	79
Calhoun	16	Ohio	235
Clay	11	Pendleton	27
Doddridge	27	Pleasants	21
Fayette	127	Pocahontas	50
Gilmer	22	Preston	246
Grant	34	Putnam	22
Greenbrier	128	Raleigh	196
Hampshire	30	Randolph	118
Hancock	199	Ritchie	35
Hardy	32	Roane	52
Harrison	505	Summers	24
Jackson	53	Taylor	91
Jefferson	33	Tucker	54
Kanawha	805	Tyler	37
Lewis	64	Upshur	66
Lincoln	15	Wayne	23
Logan	81	Webster	42
Marion	424	Wetzel	107
Marshall	131	Wirt	13
Mason	30	Wood	235
McDowell	83	Wyoming	63
Mercer	132		
		TOTAL	7,065

By States and United States Possessions

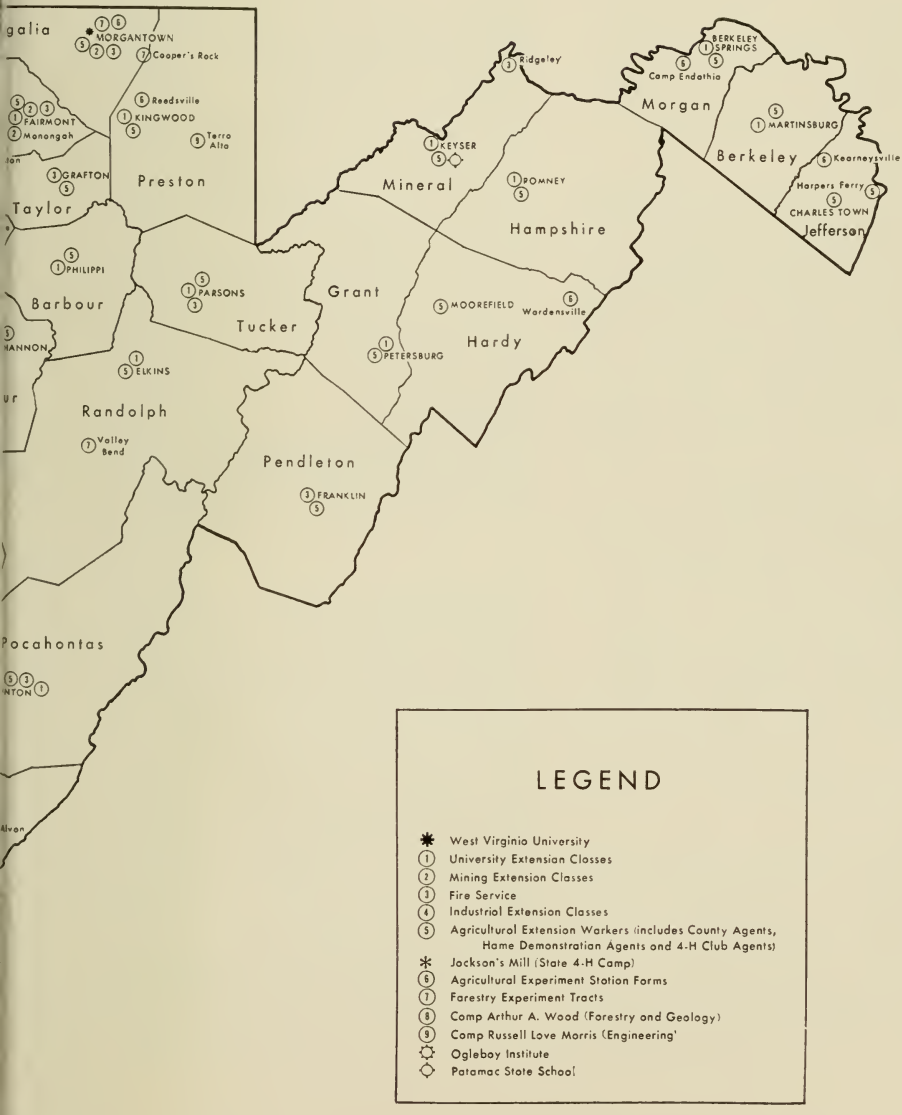
Alabama	1	Nebraska	2
Alaska	1	New Hampshire	1
Arizona	1	New Jersey	61
California	6	New York	79
Connecticut	3	North Carolina	5
Delaware	5	Ohio	119
District of Columbia	11	Oregon	2
Florida	10	Pennsylvania	1,011
Georgia	4	Puerto Rico	1
Idaho	1	South Carolina	1
Illinois	9	Tennessee	3
Indiana	6	Texas	4
Iowa	1	Utah	1
Kansas	1	Vermont	1
Kentucky	7	Virginia	55
Louisiana	2	Washington	4
Maine	3	West Virginia	7,065
Maryland	119	Wisconsin	3
Massachusetts	4	Wyoming	1
Michigan	5		
Minnesota	1	TOTAL	8,628
Mississippi	8		

By Foreign Countries

Afghanistan	1	Liberia	1
Argentina	1	Nepal	1
British Guiana	1	Norway	1
Canada	3	Pakistan	1
Chile	1	Panama	1
China	25	Paraguay	1
Costa Rica	1	Peru	1
Cuba	2	Phillippines	1
Egypt	1	Thailand	1
India	6	Turkey	2
Indonesia	1	Vietnam	1
Iran	3		
Iraq	1	TOTAL	67
Israel	2	TOTAL UNIVERSITY ENROLLMENT	
Korea	5	1960-61	8,695
Lebanon	1		

Chester
NEW CUMBERLAN
Hancock
Brooke
WELLSBURG
Beechbottom
Ohio
WHEELING
MOUNDSVILLE
Marshall
NEW MARTINSVILLE
Hundred
Pine Grove
Wetzel
MIDDLEBOURNE
Tyler
ST MARYS
Pleasants
Vienna
PARKERSBURG
WEST UNION
Doddridge
Harris
HARRISVILLE
Wood
Ritchie
ELIZABETH
Wirt
WESTON
Jackson's Mill
GRANTSVILLE
GLENVILLE
Lewis
Jackson
POINT PLEASANT
RIPLEY
Calhoun
Gilmer
SPENCER
Mason
Braxton
Roane
SUTTON
WINFIELD
Webste
Cabell
Putnam
Kanawha
Clay
Barton
HUNTINGTON
Institute
CLAY
St Albans
Dunbar
S.Charleston
CHARLESTON
Nicholas
HAMLIN
SUMMERSVILLE
WAYNE
Belle
Richwood
Lincoln
Nellis
Montgomery
Smithers
Wayne
Seth
Powellton
MADISON
Lookout
FAYETTEVILLE
Wharton
Whitesville
Leewood
Crichton
Clothier
Oak Hill
Rainelle
Sharples
Fayette
Greenbri
Logon
Boone
Mt.Hope
Dingess
LOGAN
Loyland
Holden
Montcoal
Dehue
Mingo
Omar
Raleigh
BECKLEY
LEWISBURG
Accoville
Man
Amherstdale
Amigo
Mabscott
WILLIAMSON
Oceana
McAlpin
Sophia
Red Jacket
Statesbury
HINTON
Helen
Summers
PINEVILLE
Wyoming
Mullens
UNION
Itmann
Monroe
Mercer
Davy
McDowell
WELCH
Bishop
Peterstown
Coalwood
Matoaka
Gary
Jenkinjones
PRINCETON
Bartley
Isabon
Berwind
Bluefield
Amonate

WHERE
WEST VIRGINIA UNIVERSITY
SERVES THE STATE



LEGEND

- ✱ West Virginia University
- (1) University Extension Classes
- (2) Mining Extension Classes
- (3) Fire Service
- (4) Industrial Extension Classes
- (5) Agricultural Extension Workers (includes County Agents, Home Demonstration Agents and 4-H Club Agents)
- ✳ Jackson's Mill (State 4-H Camp)
- (6) Agricultural Experiment Station Farms
- (7) Forestry Experiment Tracts
- (8) Camp Arthur A. Wood (Forestry and Geology)
- (9) Camp Russell Love Morris (Engineering)
- ☼ Ogleboy Institute
- ◇ Potomac State School

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UNIVERSITY CALENDAR

UNIVERSITY CALENDAR

1961

June 3, Saturday ..... Alumni Day
June 4, Sunday ..... Baccalaureate Exercises
June 5, Monday ..... Commencement
June 12, Monday ..... Registration for First Term, Summer Session
June 13, Tuesday ..... First Classes, First Term, Summer Session*
July 4, Tuesday ..... Independence Day, a holiday
July 21, Friday ..... Close of First Term, Summer Session
July 24, Monday ..... Registration for Second Term, Summer Session
July 25, Tuesday ..... First Classes, Second Term, Summer Session
August 30, Wednesday ..... Close of Second Term, Summer Session
September 11, Monday, to September 17, Sunday, inclusive .. Freshman Week Program
September 15, Friday, & September 16, Saturday .. General Registration, First Semester
September 18, Monday ..... First Classes, First Semester
October 10, Tuesday ..... Meeting of University Senate
October 12, Thursday ..... English Proficiency Examination
November 6, Monday ..... Mid-Semester Reports Due
November 22, Wednesday, to November 26, Sunday, inclusive .. Thanksgiving Recess
December 16, Saturday, 12:00 noon to January 2, Tuesday, inclusive .. Christmas Recess

1962

January 20, Saturday ..... Last Classes, First Semester
January 22, Monday, to January 27, Saturday .. Final Examinations for First Semester
February 2, Friday, & February 3, Sat. .... General Registration for Second Semester
February 5, Monday ..... First Classes, Second Semester
February 7, Wednesday ..... West Virginia University Day
February 13, Tuesday ..... Meeting of University Senate
February 22, Thursday ..... English Proficiency Examination
March 26, Monday ..... Mid-Semester Reports Due
April 20, Friday, to April 25, Wednesday, inclusive ..... Easter Recess
May 8, Tuesday ..... Meeting of University Senate
May 23, Wednesday ..... Last Classes, Second Semester
May 24, Thursday, to May 31, Thursday ..... Final Examinations for Second Semester
May 30, Wednesday ..... Memorial Day, a holiday
June 2, Saturday ..... Alumni Day
June 3, Sunday ..... Baccalaureate Exercises
June 4, Monday ..... Commencement

*Classes will be held on July 1, August 5, and August 12.